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MEMORANDUM REPORT NO. 2044

FLOW IN MODEL ROOMS CAUSED BY AIR SHOCK WAVES

by

George A. Coulter

July 1970



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BALLISTIC RESEARCH LABORATORIES

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FLOW IN MODEL ROOMS CAUSED BY AIR SHOCK WAVES

George A. Coulter

Terminal Ballistics Laboratory

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This work was supported by Office of Civil Defense, Work Order No.

DAHC-20-67-W 0153

(OCD Work Unit Number 1123C)

ABERDEEN PROVING GROUND, MARYLAND



The following conclusions appear to be valid for the shock overpressure range 5-20 psi.

- 1. A room entrance without a baffle allows the incoming flow to create a high speed flow of several hundred feet per second along the centerline of the entrance. The jet probably does not extend past a half entrance width to either side of the entrance. However, the distance the high speed flow extends into a room varies with the pressure of the external shockwave. For example, an input shock of 20 psi level caused the jet to extend 10 15 entrance widths along the centerline with dynamic pressure still above a safe (3.7 psi, Ref. 8) value.
- 2. An entrance baffle placed one entrance width inside successfully deflected the incoming jet from the centerline of the room without adding to the overall unsafe area.
- 3. By the addition of an entrance baffle, about the same safe floor space was available in the model when exposed to a shock overpressure of 20 psi as was available when the model was exposed to 5 psi without an entrance baffle.

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SUMMARY

A. Introduction:

The work reported here is the third part in a study of the filling processes of rooms when exposed to blast and shockwaves in the range of 5-20 psi overpressure.

The earlier work treated the expansion of the free field blast wave into a room and the increase in the internal pressure caused by pressure falling throughout the entire room volume. The experiments reported here describe a third part of the filling problem - the creation of a high speed air jet caused by the incoming air from the external blast wave. The purpose of this work is to determine the velocity of the air flow in the jet and the area it covers.

Results obtained in the study allow estimates to be given of the unsafe area of a full-size shelter room with and without a baffle inside the extrance. The estimates are given for free field blast waves of 5-20 psi overpressure range.

B. Experiments:

Two- and three-dimensional models were exposed to step shock waves in the BRL Shock Tubes. Two-dimensional air flow was observed inside models by movement of smoke grid tracers photographed by a high speed framing camera. Stagnation and side-on fill pressures were measured with transducers inside three-dimensional models to determine the dynamic pressure inside.

C. Results and Conclusions:

The Appendices of the report contain computer program flow predictions for simple models with and without an entrance baffle, tables of flow calculated from the smoke grid tracer method, and the pressure-time records obtained inside the three-dimensional models.

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BALLISTIC RESEARCH LABORATORIES

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SUMMARY

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George A. Coulter
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(OCD Work Unit Number 1123C)

ABERDEEN PROVING GROUND, MARYLAND

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MEMORANDUM REPORT NO. 2044

GACoulter/mba Aberdeen Proving Ground, Md. July 1970

FLOW IN MODEL ROOMS CAUSED BY AIR SHOCK WAVES

ABSTRACT

Experimental results and two-dimensional computer code predictions are shown which illustrate the internal air flow inside model rooms when loaded externally by air shock waves in a 5-20 psi range. Stagnation and side-on fill pressure records are presented for three-dimensional models which indicate that flow patterns similar to those observed in the two-dimensional study are present inside the three-dimensional models. Baffles were placed inside the entrances of the models which re-directed the air flow to positions off the entrance centerline and gave more safe floor area.

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LIST OF SYMBOLS

A	Area of entrance to model, in. ²
A _F	Area of inside front wall of model, in. ²
A ₁	Ambient sound speed, ft/sec
L	Length of model, in.
P _{fill}	Pressure to which room fills, psi
P max	Maximum pressure, psi
P _s	Side-on overpressure of external input shock wave, psi
Pstag	Stagnation overpressure, psi
Q	Dynamic pressure, 1/2 pu ² , lb/ft ²
$Q_{\mathbf{M}}$	Maximum dynamic overpressure, psi
V	Internal volume of model, in. 3
W	Width of entrance, in.
x	Distance along model, measured from the inside front wall, in.*
ρ	Density of air, slug/ft ³
ũ	Average velocity of air flow, ft/sec
е	Angle of air flow vector measured from horizontal, deg.
Y	Distance perpendicular to axis of model, measured from inside bottom of model, in.*

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^{*} Notation is reversed for Ripple Code data in Appendix A.

I. INTRODUCTION

The work reported here is the third part in a study of the filling processes of rooms and chambers when exposed to blast and shock waves. The work was sponsored by the Office of Civil Defense under contract, Work Order No. DAHC-20-67-W-0153, with the Ballistic Research Laboratories (BRL).

The purpose of this work is to study the incoming flow field inside a room and the related damage potential of the flow caused by the filling process. The earlier work was reported in References 1-4*.

The present study was broken into two parts. One was done with two-dimensional models in which the flow was monitored photographically with smoke grids as tracers. The second group of experiments was done with three-dimensional models. In this study stagnation and side-on fill pressure-time records were obtained from the outputs of pressure transducers to determine the dynamic pressure of the flow from the jet in the model entrance.

The data from both groups of experiments are placed in the Appendices. The results from the two-dimensional study are in Appendix A, the flow calculations from the smoke grid tracers are listed in Appendix B, and the pressure-time records from the three-dimensional models are given in Appendix C.

II. EXPERIMENTS

High speed air flows have been predicted (Reference 1, 5, and 6) for areas of flow on or near the entrance centerline of a room or shelter which is being filled by the exterior shock overpressure to which the shelter is exposed. Since high speed air flow may cause translation of persons in a room or shelter, it is necessary to determine the magnitude of the flow parameters and the area over which they exist.

^{*}References are listed on page 75 Preceding page blank

The present experiments were carried out to determine if the predicted flows (several hundred feet per second for an input pressure of $P_S = 5$ psi) existed, and the distance the flows extended into a room. A second goal was to deflect and reduce, if possible, by an entrance baffle, the incoming flow so a greater "safe" floor space would be available in the room or shelter.

Table I summarizes the type models and orientation of the models to the shock waves used in the experiments. The type of filling (front or side-on) is noted.

A. Two-Dimensional Models

Computer predictions (RIPPLE program, Reference 7) were made by Dr. V. Kucher and Mr. J. Harrison; Applied Mathematics Division, BRL; for the first two models shown in Figure 1. Again, high speed flows were predicted along the centerline of the entrance to the model and near the baffle. No computer predictions were made for the remainder of the two-dimensional models.

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Figures 1-C, 1-D, and 1-E show the two-dimensional models used for the present study. Air flow patterns were observed inside each model by smoke grid tracers. Just before the shock tube is fired, smoke grids are established as shown in Figure 2. A high speed framing camera followed smoke grid movement and calculations were made from these data.

B. Three-Dimensional Models

A short coming of the smoke grid tracer method is the fact that the grids move out of the high speed flow area. Less and less information is obtained as the flow continues and the grids leave the areas of interest.

Accordingly, to obtain data in the high speed flow areas near the entrance, for the three-dimensional study, stagnation pressure transducers were placed inside the model rooms to measure the effect of the speed of the jet. The recording system channels consisted of Susquehanna ST-2 ceramic pressure transducers, Kistler 566 charge

Table I. Experimental Models

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-	Two-Dimen	Two-Dimensional Models		-
Size 4 x 4 in.	Type of Filling Front (Reflection)	Input Pressure psi 5	A/A _F , \$	V/A,Ft
4 x 4 in.	Side	ហ	6.25	5.33
35 w/Baffle 4 x 4 in.	Side	υ	6.25	5.33

 $1/4 \times 4$ in. Entryway

Two Baffles

5.33

6.25

l x 4 in. Entrance

Remarks

	F	Three-Dimensional Models	so l			
27A 4x392x6 in.	Front	5,10,20	2.0	24.5	.32 x l in. Entrance	
27-A w/Baffle 4x3.92x6 in.	Front	5,10,20	2.0	24.5	.32 x l in. Entrance	
25-A 15x15x23.4 in.	Side	5,10,20	3.55	54.8	$2 \times 4 \text{ in.}$ Entrance	
25-A w/Baffle 15x15x23.4 in.	Side	5,10,20	3.55	54.8	2 x 4 in. Entrance	

 4×4 in.

36

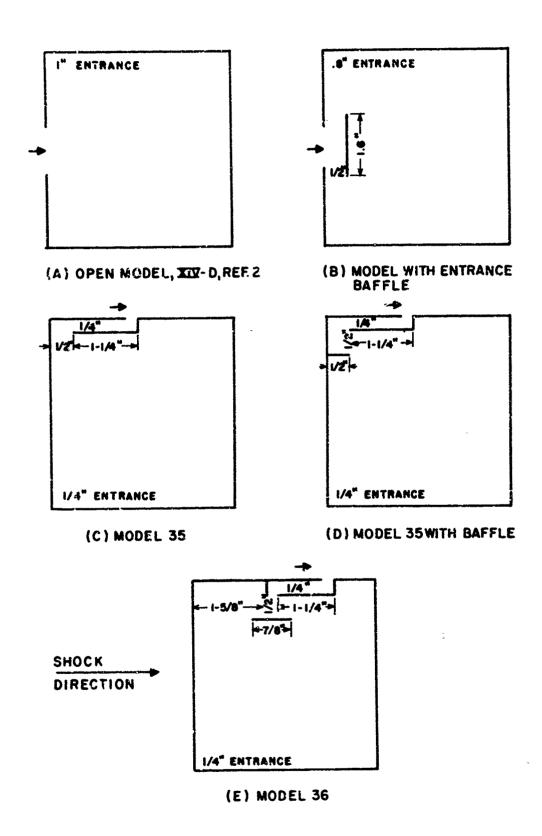
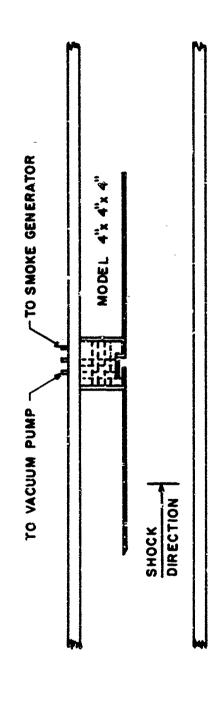


Figure 1. Two-Dimensional Models



TEST SECTION OF 4x IS INCH SHOCK TUBE

Figure 2. Smoke Grid Technique

amplifiers, Tektronix 502 or 564 oscilloscopes equipped with Polaroid cameras.

Figures 3 - 5 show the three-dimensional models with the transducer locations.

III. RESULTS

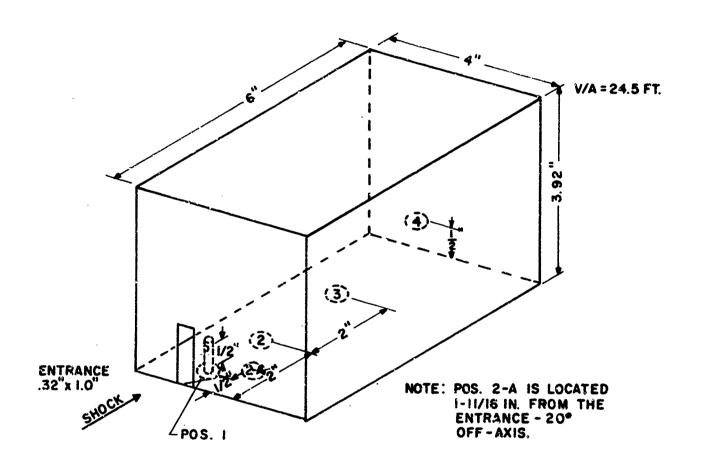
The results are presented in two parts: two-dimensional and three-dimensional models.

A. Two-Dimensional Models

Vector plots of the results of the computer program calculations are shown as Figures 6 - 14. Figures 6 - 10 show the vector flow field generated when an input shock wave of P_S = 5 psi is reflected on the outside front of an entrance to a room. High speed flows of several hundred feet per second are predicted along the axis of the entrance. The flow trying to turn the corner at the entrance causes a rotation of the flow throughout the room. At the edge of the room entrance the result is a vortex.

The second set of the computer plots (Figures 11 - 14) show how a similar model with an entrance baffle re-directs the incoming flow during the time the model is being filled. Large flow velocities (>1000 ft/sec) are predicted to exist between the baffle and the front wall. However, they do not appear to extend beyond the baffle. A listing of axial and radial components of the airflow velocity vectors for both models are given in Appendix A.

Table II presents a numerical comparison of the experimental data (Reference 2, Model XIV-D) with the computer program predictions. A time correction to the computer data was made to adjust time zero to be shock arrival inside the model. This was time zero for the experiments of Reference 2. The overall patterns of flow are similar for the computer program predictions and for the experimental cases. If there is a time or position error in either, large differences in flow-magnitude and direction - may occur at areas of rapid flow changes



MODEL 27-A

Figure 3. Sketch of Model 27-A

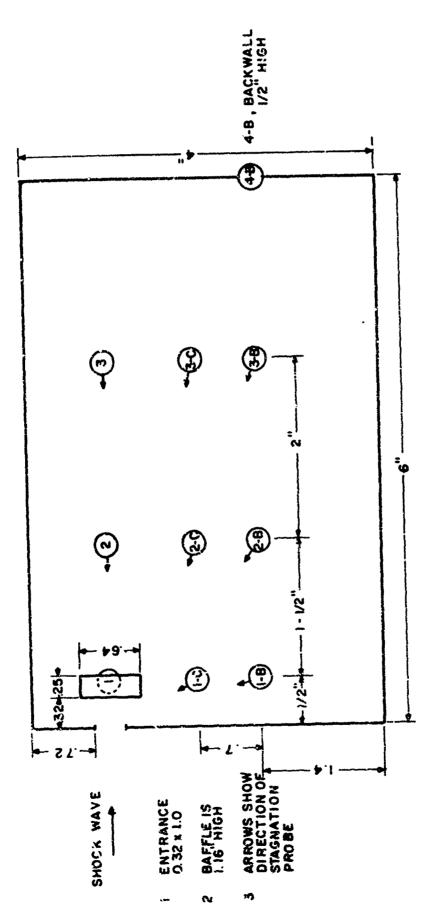


Figure 4. Transducer Positions For Model 27-A, with Baffle

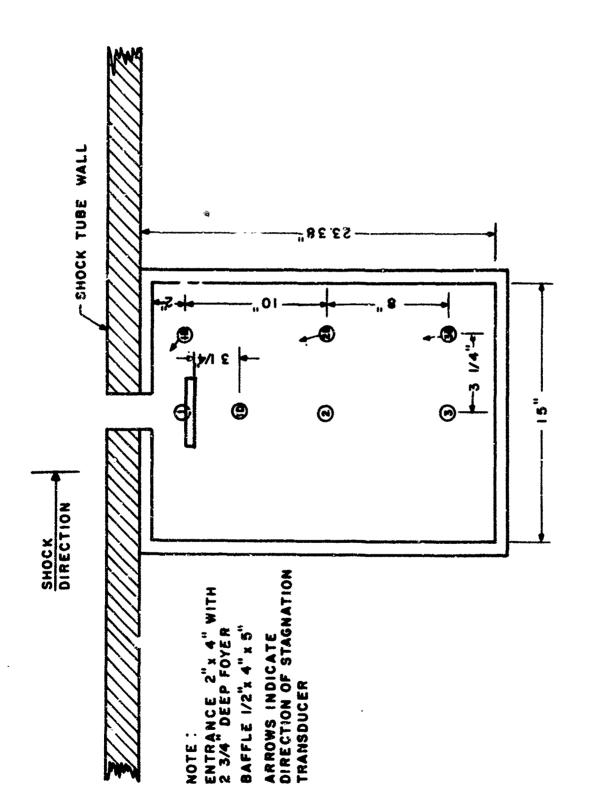
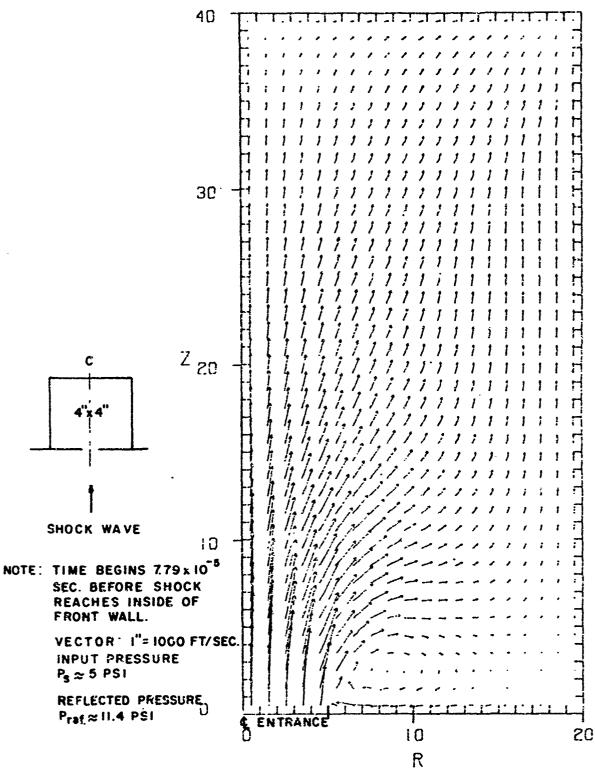
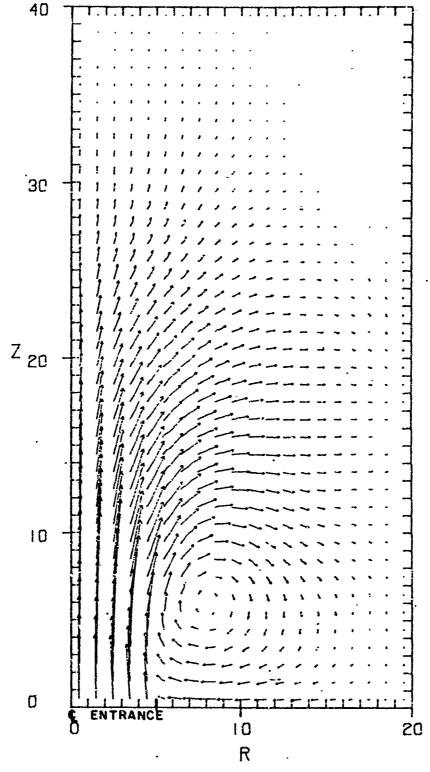


Figure 5. Sketch of Model 25-A, with Baffle



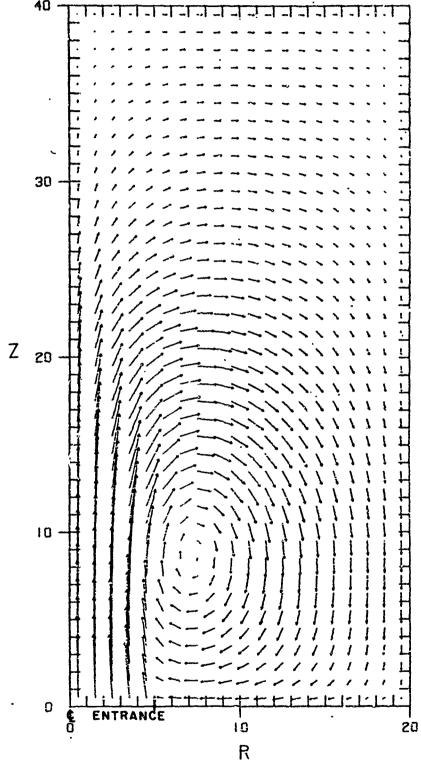
VELOCITY FIELD
TIME=3.6393556E-04 SEC CYCLE= 150

Figure 6. Flow Vectors from Ripple Code-364 Microseconds



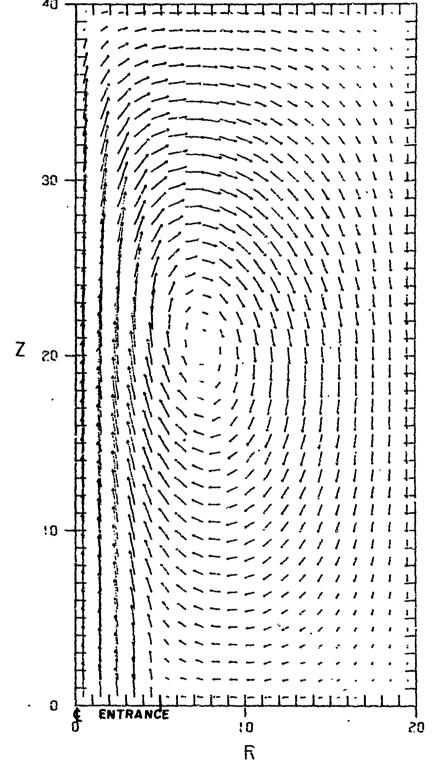
VELOCITY FIELD
TIME=5.360:483E-04 SEC CYCLE= 225

Figure 7. Flow Vectors - 536 Microseconds



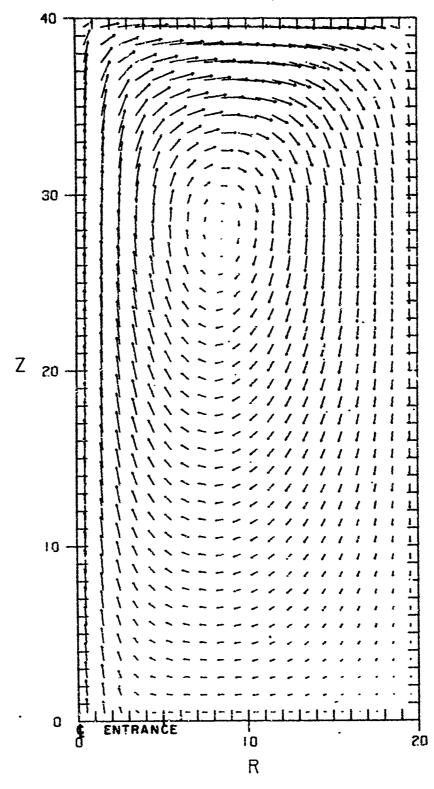
VELOCITY FIELD
TIME=6.496773ZE-04 SEC CYCLE= 275

Figure 8. Flow Vectors - 650 Microseconda



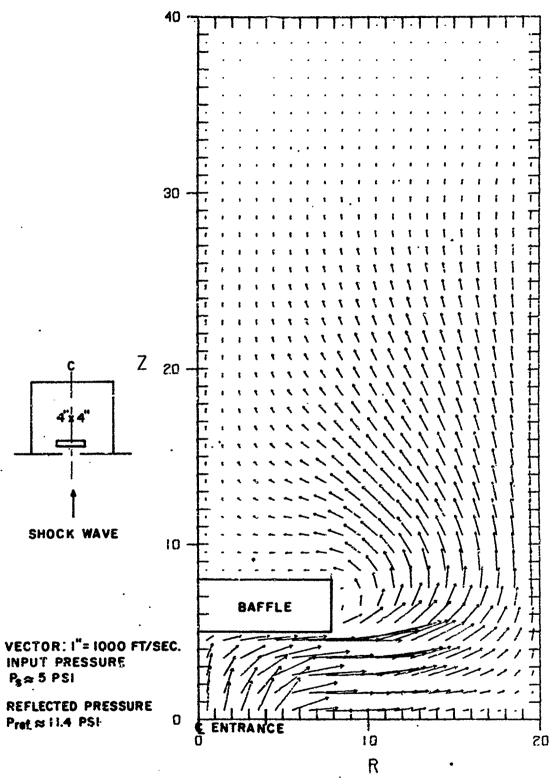
VELOCITY FIELD
TIME=1-0593036E-03 3EC CYCLE- 475

Figure 9. Flow Vectors - 1059 Microseconds



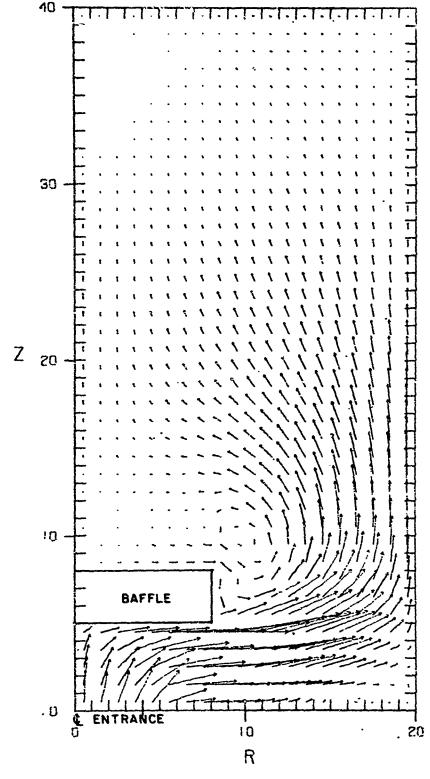
VELOCITY FIELD
TIME=1.5610186E-03 SEC CYCLE= 750

Figure 10. Flow Vectors - 1561 Microseconds



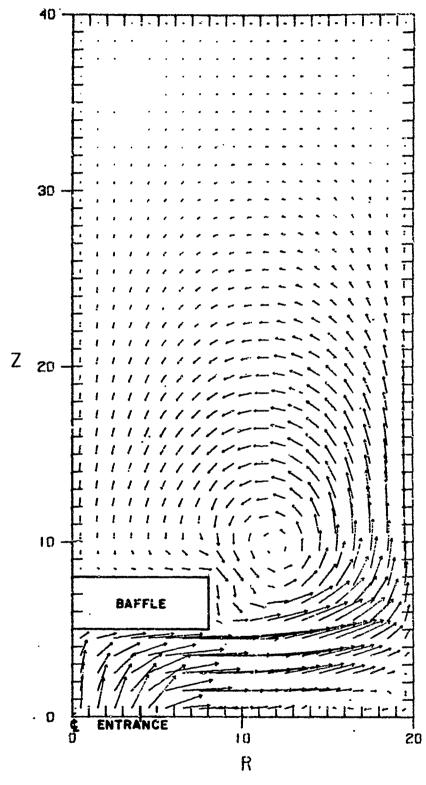
VELOCITY FIELD
TIME=3.5234589E-04 SEC CYCLE= 150

Figure 11. Flow Vectors from Ripple Code - 4 x 4 Inch Model with Baffle - 352 Microseconds



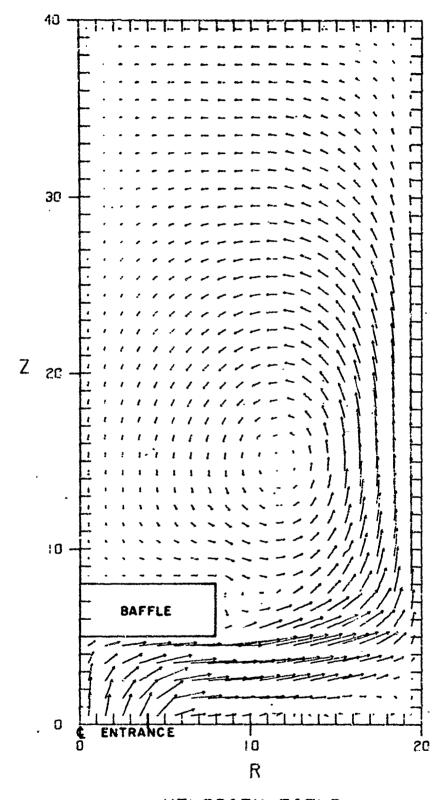
VELGCITY FIELD
TIME=5.4606139E-04 SEC CYCLE= 250

Figure 12. Flow Vectors - with Baffle - 546 Microseconds



VELOCITY FIELD
TIME=8.8570111E-04 SEC CYCLE= 325

Figure 13. Flow Vectors - with Baffle - 686 Microseconds



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VELOCITY FIELD
TIME=1.0826130E-03 SEC CYCLE- 525

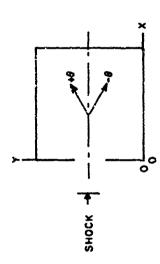
Figure 14. Flow Vectors - with Baffle - 1083 Microseconds

Table II. Comparison of Computer Results with Experiment

X Y U 1/2 μ u Slugs/Ft Deg Time X Y U 1/2 μ u Slugs/Ft Deg Heac 15. Y O 1/2 μ u Slugs/Ft Deg Heac 15. Till Ft/Sec Per page	Y U III. Sec. 50 2084 42 42 1.14 22192 137 1.92 300 1.50 228	Na	Slugs/Ft. .0049 .0022 .0026 .0027 .0024 .0028		Time	×	>	ם	1/2c u	9		
20 .007 .0049 180 286 .25 1.15 19 .002 -152 8 .25 1.15 19 .003 .0025 -152 33 .0025 -152 31 .0025 -152 31 .0025 -152 30 .0025 -152 31 .0025 -30 132 30 .0025 -30 13 .0025 -30 13 .0025 -30 13 .0025 -30			. 0049 . 0022 . 0026 . 0027 . 0024 . 0028	180	r.sec	i.	Įņ.	Ft/Sec	psi	Sluga/Ft	- 1	Remarks
42 0.03 -175 .25 1.15 19 .603 .0023 132 a 221 434 .0026 -58 .95 1.15 196 .333 .0025 -30 137 .173 .0024 -11 .15 196 .333 .0025 -30 228 .514 .0024 -11 .15 196 .333 .0025 -3 228 .514 .0024 -11 .15 146 .024 .0025 -2 189 .324 .0027 -4 .245 1.15 146 .0224 .0025 -23 187 .333 .0027 -4 .245 1.15 124 .185 .0025 -23 118 .129 .0027 -4 .245 1.15 144 .224 .0025 -23 118 .129 .0027 -4 .295 1.75 130 .141 .0024 -19		. 013 . 173 . 736 . 514 . 524	. 0025 . 0026 . 0027 . 0028 . 0028	-175	286	. 25	. 55	11	, 001	. 0025		Shockwave
1.4 221 .434 .0026 -58 .95 1.15 196 .333 .0025 -30 r .30 .736 .0024 -21 1.45 1.55 273 .646 .0025 -23 .23 .0025 -23 .23 .0025 -23 .23 .0025 -23 .23 .0025 -23 .23 .0025 -23 .23 .0025 -23 .23 .0025 -23 .23 .0025 -23 .23 .0025 -23 .23 .0025 -23 .23 .0025 -23 .23 .0025 -23 .23 .0025 -23 .23 .0025 -23 .23 .0025 -23 .23 .0025 .23 .23 .23 .0025		. 514 . 514 . 514 . 514 . 524	. 0024 . 0024 . 0028 . 0027			. 25	1.15	19	. 003	. 0023	132	at rear of
1,14 2,11 1,14 1,15 196 333 0025 -30 1,92 300 736 .0024 -1 1,45 1,95 310 .667 .0020 -3 1,92 300 736 .0024 -1 1,45 1,95 310 .667 .0020 -3 1,50 228 .514 .0027 -1 2,45 1,15 146 .185 .0025 -20 1,70 187 .0027 -4 2,45 1,15 146 .185 .0024 -21 1,70 187 .0027 -4 2,95 1,75 164 .185 .0024 -9 1,70 118 .0027 -4 2,95 1,95 131 .143 .0024 -19 2,09 115 .129 .0027 -8 2,95 1,95 131 .143 .0024 -19 2,09 115 .148 .0024 -140 <td></td> <td>. 173 . 736 . 514 . 324</td> <td>. 0024 . 0028 . 0028</td> <td>2,5</td> <td></td> <td>56.</td> <td>1,15</td> <td>196</td> <td>. 333</td> <td>. 0925</td> <td>-30</td> <td>model.</td>		. 173 . 736 . 514 . 324	. 0024 . 0028 . 0028	2,5		56.	1,15	196	. 333	. 0925	-30	model.
1, 72 300 736 .0024 -1 1,45 1,95 310 .667 .0020 -3 1,50 228 .514 .0028 -21 1,45 1,55 273 .666 .0025 -23 1,50 228 .514 .0027 -4 2.45 1,15 146 .185 .0025 -20 1,70 187 .333 .0027 -4 2.45 1,15 146 .128 .0024 -9 1,70 187 .333 .0027 -4 2.95 1,15 124 .0224 .0024 -9 1,78 118 .129 .0027 -4 2.95 1,95 131 141 .0024 -9 2,09 115 .125 .0027 -8 .75 130 .014 .0024 -19 2,09 118 .0027 -49 .29 .29 1,95 131 .143 .0024 -19 <tr< td=""><td></td><td>. 514 . 514 . 514 . 426 . 428</td><td>. 0024</td><td>446</td><td></td><td>. 95</td><td>1.15</td><td>196</td><td>. 333</td><td>. 0025</td><td>-30</td><td></td></tr<>		. 514 . 514 . 514 . 426 . 428	. 0024	446		. 95	1.15	196	. 333	. 0025	-30	
1,50 228 .514 .0028 -21 1,45 1,55 273 .646 .0025 -23 1,50 228 .324 .0027 -4 2,45 1,15 146 .185 .0025 -20 1,70 187 .33 .0027 -4 2,45 1,15 146 .185 .0024 -9 1,70 187 .0027 -4 2,95 1,15 124 .128 .0024 -21 1,70 187 .0027 -8 .0027 -140 .25 1,95 131 .143 .0024 -19 2,09 115 .125 .0027 -140 .25 .73 .044 .0024 -119 2,09 116 .0013 -140 .95 .55 73 .044 .0024 -119 2,00 .046 .0013 -140 .95 .55 73 .044 .0024 -119 3,10 .		. 45.6. 45.6. 45.6.	. 0027	7		1.45	1.95	310	.667	. 0020	ų	
1. 23 185 . 324 . 0027 1 2.45 1.15 146 . 185 . 0024 -9 1. 70 187 . 333 . 0027 -4 2.45 1.75 164 . 224 . 0024 -9 1. 70 187 . 0026 5 2.95 1.75 164 . 224 . 0024 -9 2. 95 120 . 129 . 0027 8 . 0027 8 . 0024 -14 . 0024 -21 2. 9 115 . 125 . 0027 8 . 001 . 0024 -140 . 0024 -169 -179 </td <td></td> <td>. 324</td> <td>, 0027</td> <td>-21</td> <td></td> <td>1.45</td> <td>1.55</td> <td>273</td> <td>. 646</td> <td>. 0025</td> <td>-53</td> <td></td>		. 324	, 0027	-21		1.45	1.55	273	. 646	. 0025	-53	
1.23 1897 .323 .0027 -4 2.95 1.75 164 .224 .0024 -9 1.70 187 .333 .0027 -4 2.95 1.15 124 .128 .0024 -21 1.78 129 .0027 5 2.95 1.95 131 .141 .0024 -21 2.09 115 .125 .0027 8 .0027 8 .019 .0024 -19 2.09 115 .125 .0027 .180 .460 .25 .55 48 .019 .0024 -119 2.09 .166 .0013 -160 .95 .55 73 .044 .0024 -119 2.57 .100 .046 .0013 -160 .95 .55 73 .044 .0024 -119 2.57 .134 .392 .0062 -49 .145 .95 .55 73 .044 .0024 -119 2.57 .134 .302 .0062 -49 .145 .95 .15 .15 .002 -91 1.01 .102 .202 .40 .0028 -30 .195 .195 .196 <t< td=""><td></td><td>333</td><td>1700</td><td>-</td><td>286</td><td>2, 45</td><td>1, 15</td><td>146</td><td>. 185</td><td>. 0025</td><td>-20</td><td></td></t<>		333	1700	-	286	2, 45	1, 15	146	. 185	. 0025	-20	
1.70 187 189 199 199 199 199 199 199 199 199 </td <td>1. 23</td> <td></td> <td>7000</td> <td>• %</td> <td>) }</td> <td>2.45</td> <td>1.75</td> <td>164</td> <td>. 224</td> <td>. 0024</td> <td>6</td> <td></td>	1. 23		7000	• %) }	2.45	1.75	164	. 224	. 0024	6	
.95 120 .129 .0027 5 2.95 .75 130 .141 .0024 -8 1.78 118 .129 .0027 5 2.95 .75 130 .141 .0024 -4 2.09 115 .125 .0027 .180 460 .25 .55 48 .019 .0024 -119 .66 148 .163 .0024 -140 .95 .55 73 .044 .0024 -119 .52 100 .046 .0013 -160 .95 .55 73 .044 .0024 -119 .57 134 .392 .0062 -49 1.45 .55 73 .044 .0024 -119 .57 134 .392 .0062 -49 1.95 1.15 168 .583 .0029 -45 1.71 164 .259 .0027 -43 1.95 1.15 168 .95 .0029 -19 1.72 .224 .491 .0028 -30 1.95 <t< td=""><td>1.70</td><td></td><td>200.</td><td><u></u></td><td></td><td>0.00</td><td>4</td><td>124</td><td>128</td><td>. 0024</td><td>-21</td><td></td></t<>	1.70		200.	<u></u>		0.00	4	124	128	. 0024	-21	
1.78 118 .129 .0027 5 2.95 1.95 131 .143 .0024 -4 2.09 115 .125 .0027 8 .001 .0024 -109 .0024 -109 .50 188 .0024 -140 .95 .55 73 .044 .0024 -109 .66 148 .183 .0024 -140 .95 .55 73 .044 .0024 -119 .66 148 .183 .0024 -140 .95 .55 73 .044 .0024 -119 .57 134 .259 .0062 -49 1.45 .55 91 .075 .0024 -119 .57 164 .259 .0027 -43 1.95 1.15 168 .583 .0029 -65 1.36 .224 .491 .0028 -30 1.95 1.95 1.95 1.95 1.09 .0029 -65 1.97 .222 .483 .0028 -3 1.95 1.95 1.95		. 129	. 002c	n ı		200		1 20	141	0024	æ	
2.09 115 .125 .0027 8 2.95 1.95 131 .115 .0024 129 .0024 129 .155 48 .019 .0024 -119 .0024 .0024 .0024 <t< td=""><td></td><td>. 129</td><td>. 0027</td><td>'n</td><td></td><td>6, 75</td><td></td><td>3</td><td></td><td>0024</td><td>4</td><td></td></t<>		. 129	. 0027	'n		6, 75		3		0024	4	
50 8 .001 .0057 180 460 .25 .55 48 .019 .0024 129 .66 148 .163 .0024 -140 .95 .55 73 .044 .0024 -119 .66 .148 .163 .004 .0013 -140 .95 .55 73 .044 .0024 -119 .57 .134 .392 .0062 -49 1.45 .55 91 .075 .0024 -119 .57 .134 .259 .0027 -49 1.75 .168 .583 .0029 -91 .1.01 .164 .259 .105 .1.15 .168 .583 .0029 -91 .1.02 .002 .491 .0028 .30 .1.95 .1.95 .1.95 .1.15 .1.09 .0029 91 .1.08 .51 .030 .0032 .460 2.45 1.1.15 .100 .104 .0029 </td <td></td> <td>, 125</td> <td>.0027</td> <td>Œ</td> <td></td> <td>2.95</td> <td> </td> <td>151</td> <td>Cr.</td> <td></td> <td>•</td> <td></td>		, 125	.0027	Œ		2.95	 	151	Cr.		•	
50 8 .001 .0024 -140 .95 .55 73 .044 .0024 -119 .66 148 .163 .0024 -140 .95 .55 73 .044 .0024 -119 .52 100 .046 .0013 -160 .95 .55 73 .044 .0024 -119 .57 134 .392 .0062 -49 1.45 .55 91 .075 .0026 -91 1.01 164 .259 .0027 -43 1.95 1.15 168 .854 .0029 -65 1.36 .224 .491 .0028 -30 1.95 1.95 1.95 1.09 .0029 -55 1.97 .222 .483 .0028 -3 1.95 1.95 1.95 1.09 .0029 -5 1.08 .51 .030 .0032 -62 460 2.45 1.15 1.09 .0029 -5 1.08 .040 .0031 -37 2.45 1.15 1.09		Š	6400	Č	460	25	. 55	48	.019	. 0024	129	Shockwave
.66 148 .183 .0024 -140 .75 .55 73 .044 .0024 -119 .52 100 .046 .0013 -140 .95 .55 73 .075 .0026 -91 .57 134 .392 .0062 -49 1.45 .55 91 .075 .0029 -65 1.01 164 .259 .0027 -43 1.95 1.15 246 .854 .0029 -65 1.36 224 .491 .0028 -30 1.95 1.95 1.95 315 1.09 .0029 -55 1.97 222 .483 .0028 -3 1.95 1.95 1.95 1.09 .0029 -54 1.08 51 .030 .0032 -62 460 2.45 1.15 100 .104 .0029 -54 1.08 .040 .0031 -37 2.45 1.15 50 .027 .0030 -17 1.72 14 .002 .045 2.95 1.55		100.	, 600.		2		ur ur	73	.044	. 0024	-1(9	has returned
100 .046 .0013 -150		. 183	4700.	0*1-) Li		0.44	0024	-119	halfway to
134 .392 .0062 -49 1.45 .55 91 .075 .0029 -65 164 .259 .0027 -43 1.95 1.15 168 .583 .0029 -65 224 .491 .0028 -30 1.95 1.95 1.95 1.95 .029 -36 222 .483 .0028 -3 1.95 1.95 315 1.09 .0029 -5 51 .030 .0032 -62 460 2.45 1.15 100 .104 .0039 -54 62 .040 .0031 -37 2.45 1.55 151 .237 .0030 -32 39 .018 .0033 -16 2.95 1.15 50 .068 .0031 -17 14 .002 .032 -46 2.95 1.95 98 .104 .0031 -27		. 046	. 0013	-160		n :	0 1		220	9200	0	front
164 , 259 , 0027 -43 1,95 1,15 168 , 583 , 0029 224 , 491 , 0028 -30 1,95 1,95 1,55 246 , 854 , 0029 222 , 483 , 0028 -3 1,95 1,95 1,95 315 1,09 , 0029 51 , 030 , 0032 -62 460 2,45 1,15 100 , 104 , 0030 62 , 040 , 0031 -37 2,45 1,55 151 , 237 , 0030 39 , 018 , 0033 -16 2,95 1,15 98 , 068 , 0031 14 , 002 , 003 -16 2,95 1,95 98 , 104 , 0031		. 392	. 0062	-49		1,45	22	7 .	0.00	0200.	* * * *	
1.36 224 .491 .0028 -30 1.95 1.55 246 .854 .0029 1.97 222 .483 .0028 -3 1.95 1.95 315 1.09 .0029 1.08 51 .030 .0032 -62 460 2.45 1.15 '00 .104 .0030 1.65 62 .040 .0031 -37 2.95 1.15 50 .027 .0031 1.72 14 .002 .0032 -16 2.95 1.55 80 .068 .0031 1.72 14 .002 .0032 -16 2.95 1.95 98 .104 .0031	10	. 259	, 0027	-43		1,95	1.15	168	. 585	6200.	n .	
1. 30 2.22 .483 .0028 -3 1. 95 1. 95 315 1. 09 .0029 1. 08 51 .030 .0032 -62 460 2. 45 1. 15 '00 .104 .0030 1. 65 62 .040 .0031 -37 2. 45 1. 15 15 .237 .0030 1. 21 39 .018 .0033 -93 2. 95 1. 15 80 .068 .0031 1. 72 14 .002 .0032 -16 2. 95 1. 95 98 .104 .0031	76	49.1	0028	-30		1.95	1.55	246	. 854	6700.	-30	
1.08 51 .030 .0032 -62 460 2.45 1.15 100 .104 .0030 1.65 62 .040 .0031 -37 2.45 1.55 151 .237 .0030 1.21 39 .018 .0033 -93 2.95 1.15 50 .027 .0031 1.72 14 .002 .0032 .46 2.95 1.55 80 .068 .0031 1.72 14 .002 .0032 .46 2.95 1.95 98 .104 .0031	1.97	. 483	. 0028	£-		1.95	1.95	315	1.09	. 0029	ကို	
1.08 51 .030 .0031 .37 2.45 1.55 151 .237 .0030 1.65 62 .040 .0031 .93 2.95 1.15 50 .027 .0031 1.21 39 .018 .0032 .16 2.95 1.55 80 .068 .0031 1.72 14 .002 .0032 .46 2.95 1.95 98 .104 .0031		9	600	- 42	460	2, 45	1.15	100	. 104	. 0030	-54	
1.65 62 .040 .0031 -57 2.95 1.15 50 .027 .0031 1.72 1.4 .002 .0032 -4.6 2.95 1.95 98 .104 .0031	1.08	050.	3000	2 5	3	2 45	بر بر	151	. 237	. 0030	-32	
1.21 39 .018 .0033 -93 .2.95 1.15 50 .058 .0031 1.72 14 .002 .0032 -16 2.95 1.55 80 .068 .0031 1.72 14 .003 .46 2.95 1.95 98 .104 .0031	1.65	040.	. 0031	7		1) -		220	0031	40	
1.72 14 .002 .0032 -16 2.95 1.55 80 .008 .0031	1.21	. 018	. 0033	-93		2.45	1, 15	2 :	- 70 .			
2.95 1.95 98 .104 .0031		005	. 0032	191-		2.95	1.55	80	. 068	. 0031	- 1-	
	2.1			44		2, 95	1.95	86	. 104	.0031	۲.	

Table II. Comparison of Computer Results With Experiment (Continued)

	XX	PERIME	EXPERIMENTAL (Ref. 2, Model XIV	f. 2, Mode	(I XIV-D)					RIPPI	RIPPLE CODE			
Time	×	*	n	1/2p u2	, d	0	Time	×	7	n	1/20 uc	p 3		
Dasi	in.	In,	Ft/Sec	psi	Slugs/Ft	Deg	Dagn	ľa.	In.	Ft/Sec		Slugs/Fr	- [Remarks
956	1.	. 50	99	.033	. 0039	180	572	. 25	. 55	100		6760.		Shockwave
	61.	1.20	144	. 170	. 0024	06		. 25	1, 15	156		. 0026	66	has returned
	2.06	1.24	125	. 151	.0028	-52		1.95	1.15	213	. 378	. 002A		to front of
	5.09	1.98	194	, 040	.0003			1.95	1.95	363		. 0029		nivdel.
	2.12	1.98	186	. 144	. 0011	'n		1.95	1.95	363		. 0029	4	
576	2.39	86.	119	. 163	. 0033	-103	572	2.45	1, 15	141	. 200	. 0029	-91	
	3,02	2. 11	32	. 011	. 6033	~		2.95	1.95	7.7	.055	. 0027	32-	
	3, 18	1.21	15	. 003	. 0036	-67		2.95	1, 15	97	860.	. 6030	-88	
	3.21	1.76	30	.010	.0032	*		3,45	1.75	41	. 017	. 0029	-50	
982	.21	1.28	34	. 005	.0023	64-	981	. 25	1, 15	88	980.	. 0032	84	Vortex
	. 42	1.10	58	.035	. 0030	20		. 45	1, 15	100	. 111	. 0032	8	centers
	. 54	1.61	218	. 445	.0027	4-		. 45	1.55	152	281	. 0035	15	har 1 passed
	. 85	1, 15	136	. 205	. 0032	39		.95	1, 15	128	165	. 0029	85	middle of
						-	-							model.



such as near the vortex. Overall, the computer program probably gives sufficiently accurate predictions for one to understand what flow pattern to expect in a room for a given entrance-baffle combination.

Table III gives a summary of the flow calculations made with the smoke grid method from Models 35, 35 with baffle, and 36. Appendix B contains the more complete flow tables and plots. All three models were exposed to the 5 psi shock wave in a side-on position so as to simulate the entryway flow conditions set up in an underground room such as a basement.

Flows of 200-300 ft/sec were observed near the entryway exit of Model 35 without a baffle. A circular flow continued around the interior of the model, moving away from the entryway exit.

In contrast, Models 35 with baffle and Model 36 seemed to contain the higher flows to an area near the baffles. The flows generally were not as high as for Model 35. Shot 342, Model 36, appears to be an exception to this, with flows of 414-463 ft/sec listed. These appear isolated in the flow tables (Appendix B) and probably do not represent the general flow properties.

B. Three-Dimensional Models

Tables IV, V, and VI summarize the data from Models 27-A, 27-A with baffle, and Model 25-A, respectively. The complete series of pressure-time records from the models are given in Appendix C.

Records from positions on the entrance centerline, typical of all the shots, are shown in Figures 15 and 16. The position numbers refer to locations of transducers as shown in Figure 5, Model 25-A. A great many pressure oscillations may be seen on all the stagnation records obtained in areas of high speed flow such as near the entrance.

Pressure calculations were made from the records by averaging through the oscillations. The dynamic pressure was calculated by a subtraction of the side-on fill overpressure values from the stagnation overpressure values for equal times after arrival at a transducer

Table III. Summary of Results from the Two-Dimensicnal Models

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Model No.	Shot No.	Grid Position	Time usec	Velocity Ft/Sec	Q LB /Ft ²	Remarks
35	331	Front-Upper	349 - 766			
	332	Front-Lower	41 - 871 912 - 1494 1535 - 1910	2 - 237	0 - 34 0 - 65 0 - 16	P _S = 5 psi
	334	Rear-Lower	15 - 222 264 - 679 721 - 1094 1136 - 2132	3 - 131 4 - 195	0 - 56 0 - 26 0 - 48 0 - 160	
	337	Rear-Upper	41 - 577 618 - 700 742 - 1154	2 - 160	0 - 18 0 - 32 0 - 14	
35/w Baffle	338	Rear-Upper	17 - 1203	3 4 - 148	0 - 28	Entryway with Baffle
	339	Rear-Lower	51 - 499 540 - 948 988 - 1152		0 - 34 0 - 5 0 - 20	
	340	Front-Lower	60 - 390 431 - 1049 1090 - 1502	2 - 67	0 - 8 0 - 5 0 - 17	
	342	Front-Upper	338 - 746	7 4 - 218 5 10 - 463 1 12 - 414		
36	343	Front-Upper		7 3 - 98	0 - 29 0 - 13 0 - 15	Entryway
	345	Front-Lower	25 - 894 936 - 1019 1060 - 1474	3J	0 - 9 0 - 35 0 - 11	with Two Baffles
	348	Rear-Lower	13 - 154	1 2 - 78	0 - 8	
	350	Rear-Upper	30 - 1396	5 2 - 93	0 - 12	

Table IV. Results - Model 27-A

Shot	Position	Туре	Input Pressure psi	Max. Fill Pressure psi	Max. AV. Stag.or Refl,psi	Remarks
256 255 254	1	Side-on	5.4 10.7 20.9	4.8 9.2 18.8		Model 27-A Entrance 0.32" x 1.0" See Fig. 3 for positions
275 276 277	1	Stag.	5.3 10.6 20.6		5.6 12.9 29.5	Pos. 1 X = 1/2" Centerline
257 258 259	2	Side-on	5.3 10.5 20.5	4.5 8.4 17.0		Pos. 2 X = 2 ^d Centerline
262 261 263	2	Stag.	5.2 10.6 20.8		5.1 9.8 18.9	Stagnation Pressure Mea- sured 1/2"above Floor
270 269 271	3	Side-on	5.3 10.8 21.0	4.7 8.9 17.1		Pos. 3 X = 4" Centerline
264 265 267	3	Stag.	5.3 10.6 21.0		4.8 9.2 19.0	
278 279 280	4	Reflect.	5.3 10.6 20.5		4.9 9.6 18.5	Pos. 4 X = 6",1/2" high on Back
281 282 283	2 -A	Stag.	5.3 10.6 20.5		4.9 10.0 18.8	Wall 20° Off Entrance Centerline, 1-11/16"

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Table V. Results - Model 27-A, with Baffle

Shot	Position	Туре	Input Pressure psi	Max. Fill Pressure psi	Max. Av. Stag. or Refl.,psi	Remarks
411 412 413	3	Side-on	5.0 10.5 20.3	5.1 10.2 20.0		Pos. 2 @3 Behind Baffle
405 406 407	2	Stag.	5.1 10.4 20.5		5.4 10.2 20.3	See Fig. 4 for all Positions
410 409 408	3	Stag.	5.1 10.7 20.5		5.6 10.9 21.4	
298 297 296	1-B	Side-on	5.2 10.5 20.7	5.2 10.1 18.8		Pos. 1-B,1/2" from Front,1.4" from Sidewall
284 285 286	1-B	Stag.	5.1 10.4 21.0		5.0 10.1 19.9	
299 400 401	2-B	Side-on	5.2 10.2 20.6	5.2 9.7 19.3		Pos. 2-B, 2" from Front,1.4" from Sidewall
289 288 287	2-B	Stag.	5.2 10.4 21.0		5.6 10.5 20.4	
402 403 404	3-B	Side-on	5.3 10.5 20.7	5.2 9.8 19.5		Pos. 3-B, 4" from Front,1.4" From Sidewall
290 291 292	3-B	Stag.	5.1 10.0 20.6		5.4 10.2 20.6	
293 294 295	4-B	Reflect.	5.3 10.3 20.5		5.7 10.6 19.8	Pos. 4-E on Rear Wall 1/2" high,1.4" from
419 418 417	1-C	Side-on	5.1 10.7 20.7	5.1 9.9 20.0		Sidewall
414 415 416	1-C	Stag.	5.1 10.4 20.7		5.5 10.8 20.1	Pos. 1-C, 1/2" from Front

Table VI. Results - Model 25-A

Shoi	Position	Input Pressure psi	Max. Fill Pressure psi	Max. AV. Stag., psi	Remarks
470 420 421	1	5.0 10.2 21.0	3.0 5.4 9.6	5.8 12.0 25.9	Entrance 2" x 4", No Baffle
471 423 422	2	4.9 9.5 20.9	3.0 4.7 9.8	3.7 6.5 15.2	Records from Position on Centerline.
472 424 425	3 .	4.9 10.8 20.9	3.1 5.4 9.7	3.7 5.8 10.6	See Fig. 5 For Positions
473 427 426	1-B	4.9 10.6 21.0	3.0 5.2 9.6	3.2 5.3 9.7	Records from Positions off
474 428 429	2-B	4.8 10.6 21.0	3.0 5.2 9.7	3.2 5.3 9.5	Centerline
475 431 430	3-В	4.6 10.7 2G.7	3.0 5.4 9.5	3.2 6.0 9.6	
479 440 441	1-D	5.0 10.6 20.7	3.2 5.4 9.9	3.4 5.7 8.1	1/2x4x5 in.Baffle Records From
480 443 442	2	4.7 10.6 20.7	3.0 5.4 10.0	3.2 5.7 10.2	Positions on Centerline.
481 444 447	3	4.8 10.6 20.8	3.0 5.7 9.7	3.2 5.6 9.9	
478 432 433	1~B	4.8 iu.6 21.0	3.1 5.5 10.4	3.9 6.9 11.3	Stag. probe pointed toward entrance. Records positions from off Centerline
435 434	1-B	10.6 21.0	5.3 9.9	5.5 9.9	Stag.probe pointed toward front wall.
477 436 437	2-B	4.8 10.5 20.9	3.1 5.4 9.9	3.3 5.6 10.0	
476 439 438	3-В	4.7 10.6 21.0	3.1 5.4 9.7	3.2 4.8 10.1	

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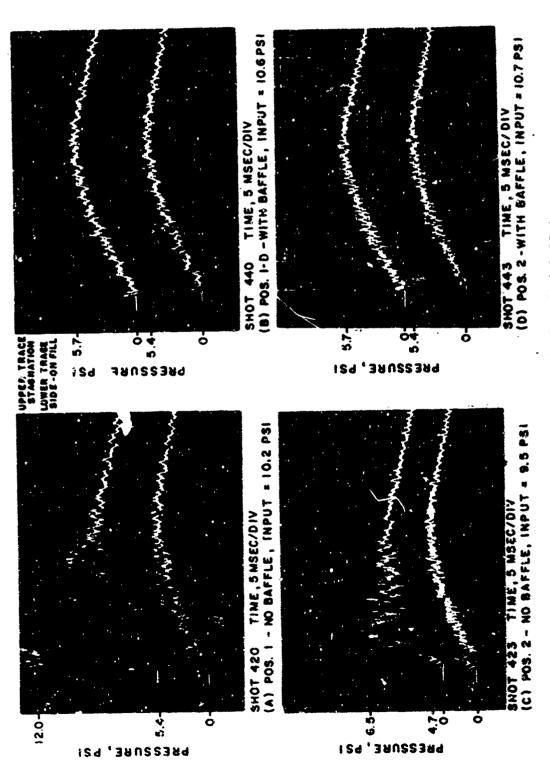


Figure 15. Typical Records from Model 25-A

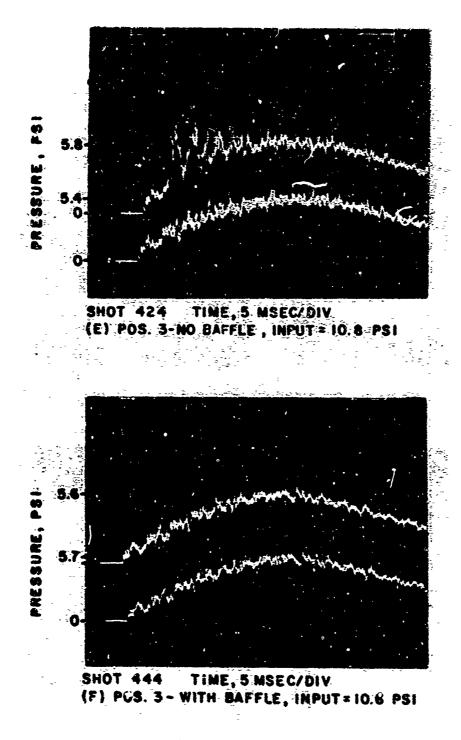


Figure 15. (Continueá) Typical Records from Model 25-A

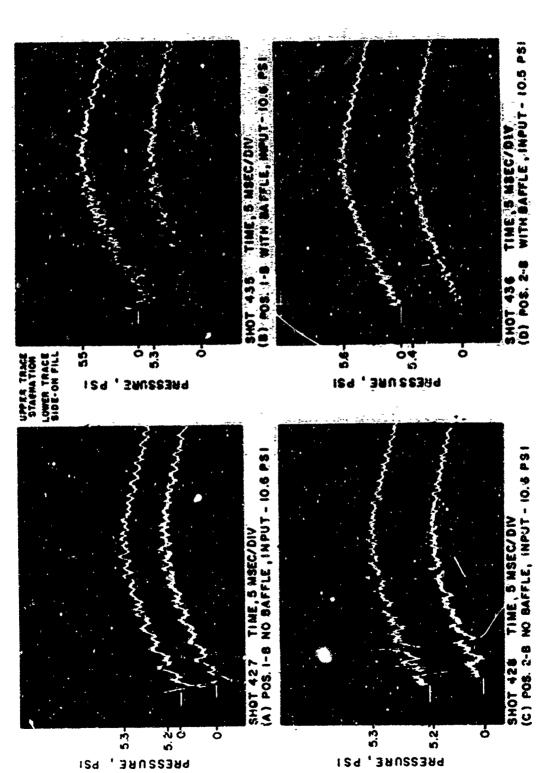


Figure 16. Typical Records from Model 25-A, Positions off Centerline.

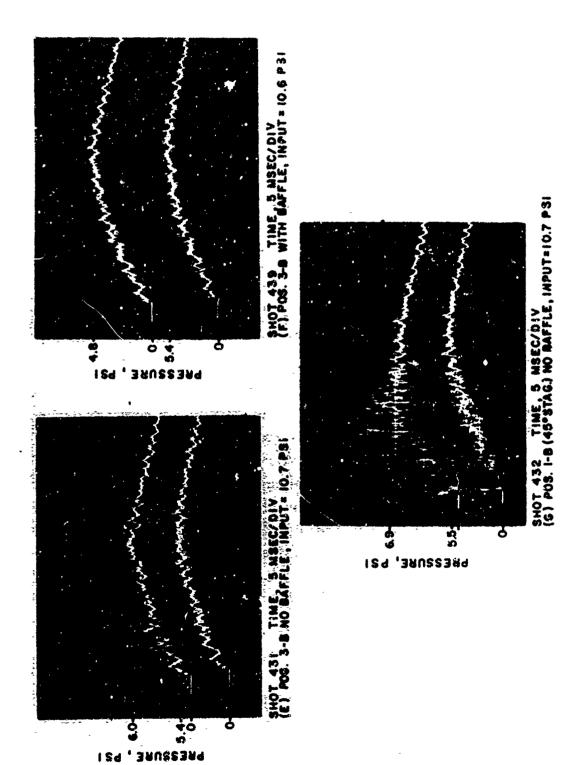


Figure 16. (Continued) Typical Records from Model 25-A, Positions off Centerline.

position. This gives them an indication of the air flows ability to cause translation. For a prototype shelter room, this damage potential can be related to translation of the occupants of the shelter. These calculated pressure differences are shown for Model 27-A (without baffle) in Figures 17 - 19 as a function of the input pressures and the transducer locations. At times early in the filling process, the stagnation pressure is large and the side-on fill is still small. The result is a large dynamic pressure approaching a value equal to the stagnation pressure of the entering flow. As the model fills, the pressure difference becomes less.

The maximum dynamic pressure decreases with distance from the entrance of the model. Position 3 shows perhaps 20% of the maximum dynamic pressure at Position 1. Addition of a baffle one entrance width inside the model causes the incoming flow to be diverted. Figures 20 - 25 show the dynamic pressure curves for positions inside Model 27-A with baffle.

Figure 26 summarizes the maximum values of dynamic pressure from 27-A. For about two entrance widths away from the entrance (no baffle) the dynamic pressure equals that of the stagnation pressure of the shock wave outside. These values decayed in about 12 entrance widths to values equal to the dynamic pressure of the shockwave outside at that time. All values of maximum dynamic pressure were reduced, with the baffle, to values below 3 psi; the majority were below 2 psi. A similar procedure of calculations of the dynamic pressure was followed for the records obtained from inside Model 25-A.

Figures 27 - 29 show the values calculated for the entrance centerline positions (no baffle). Figures 30 - 32 show very much reduced values of dynamic pressure at positions off the centerline. The same result is found for positions on the centerline behind the baffle (Figures 33 - 35).

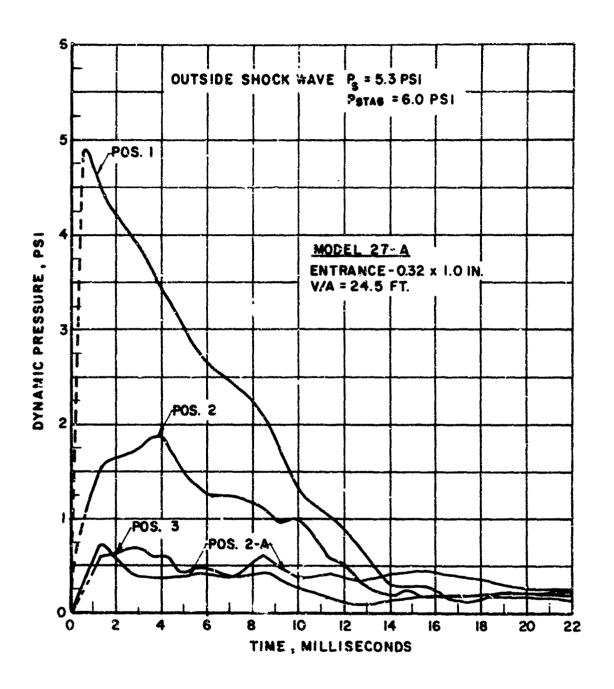


Figure 17. Dynamic Pressure - Model 27-A, $P_s = 5.3$ psi.

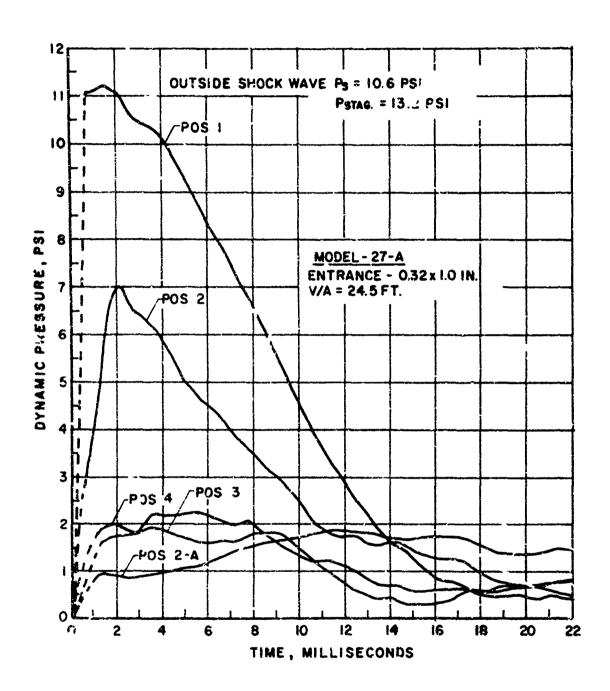


Figure 18. Dynatic Pressure - Model 27-A, $P_s = 10.6$ psi.

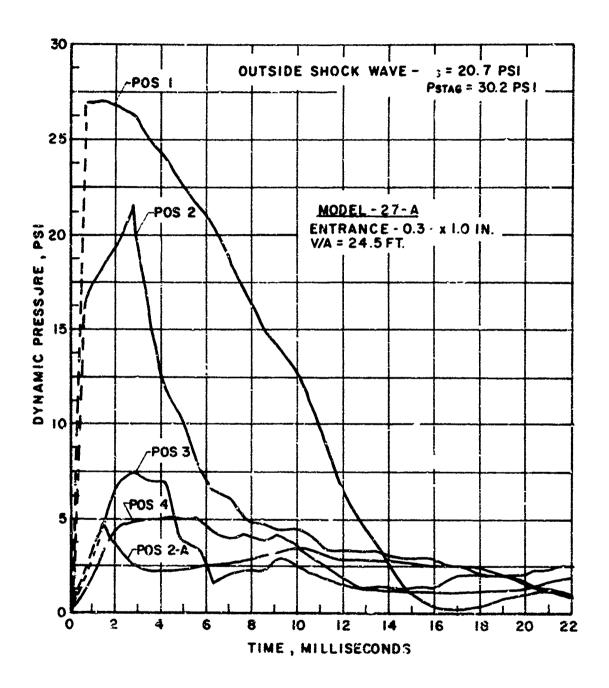


Figure 19. Dynamic Pressure - Model 27-A, P_s = 20.7 psi.

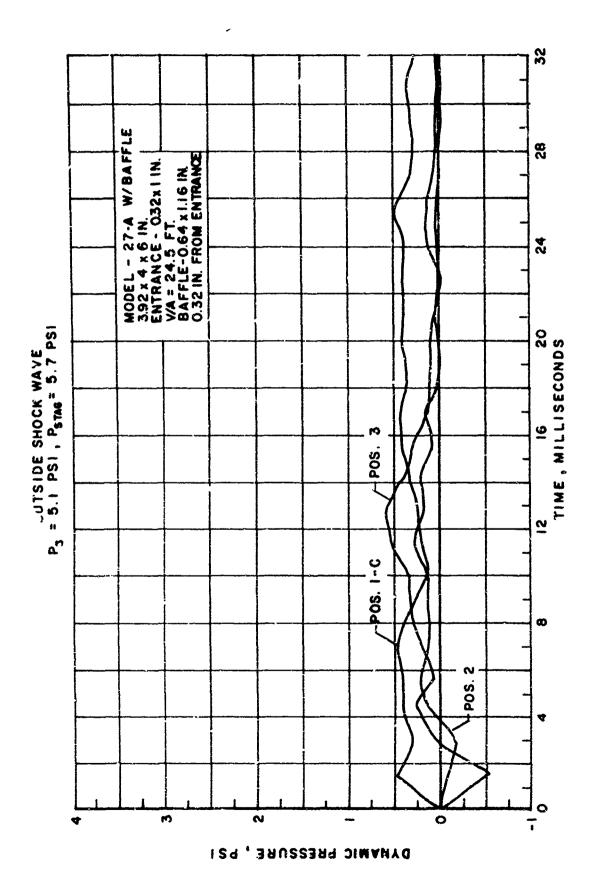
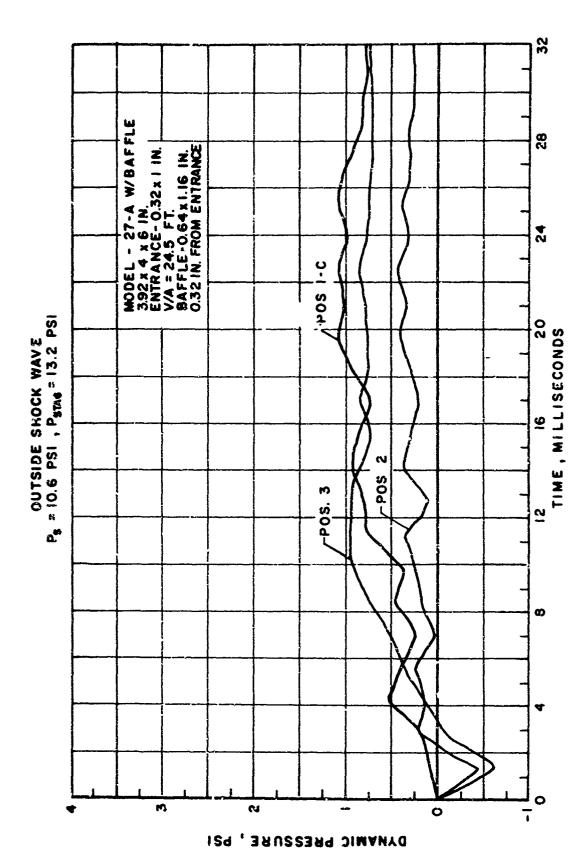


Figure 20. Dynamic Pressure - Model 27-A, with Baffle $P_s = 5.1 \text{ psi}$.



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Figure 21. Dynamic Pressure - Model 27-A, with Baffle $P_S = 10.6 \text{ psi}$.

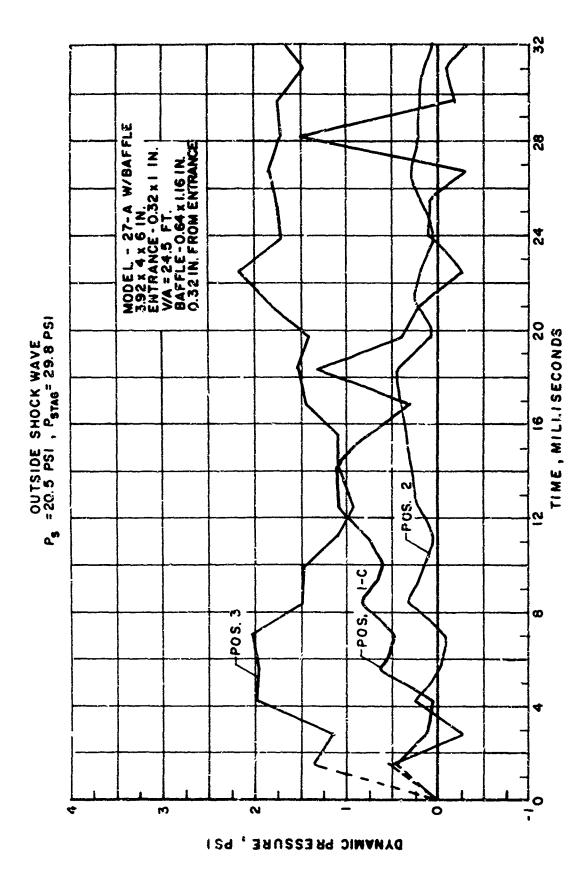


Figure 22. Dynamic Pressure - Model 27-A, with Baffle $P_{\rm S}=20.5~{\rm psi}$.

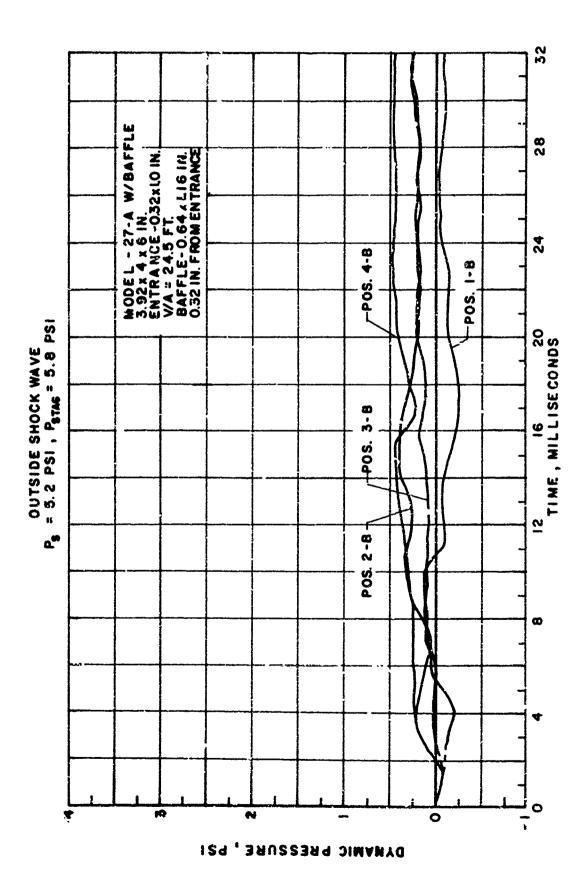


Figure 23. Dynamic Pressure off Centerline - Model 27-A, with Baffle - P_s = 5.2 psi.

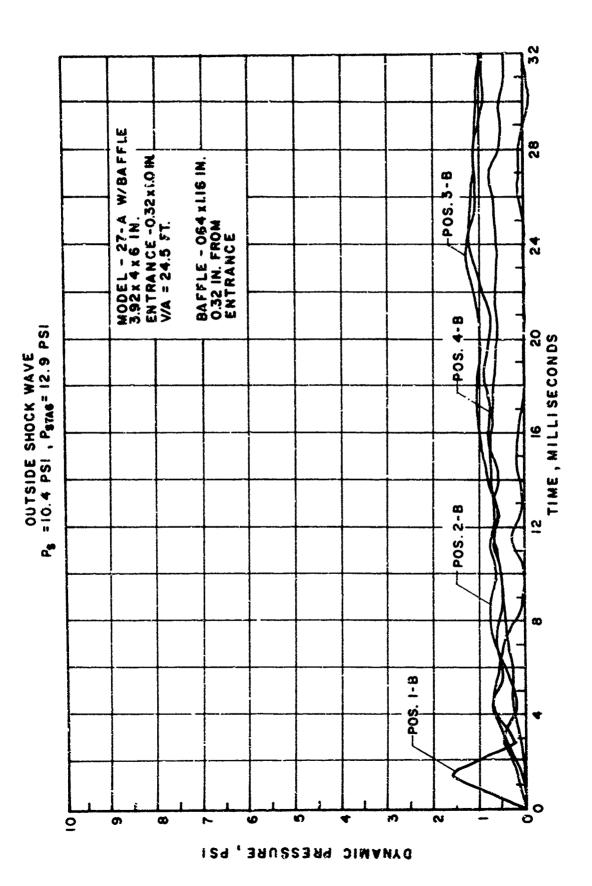
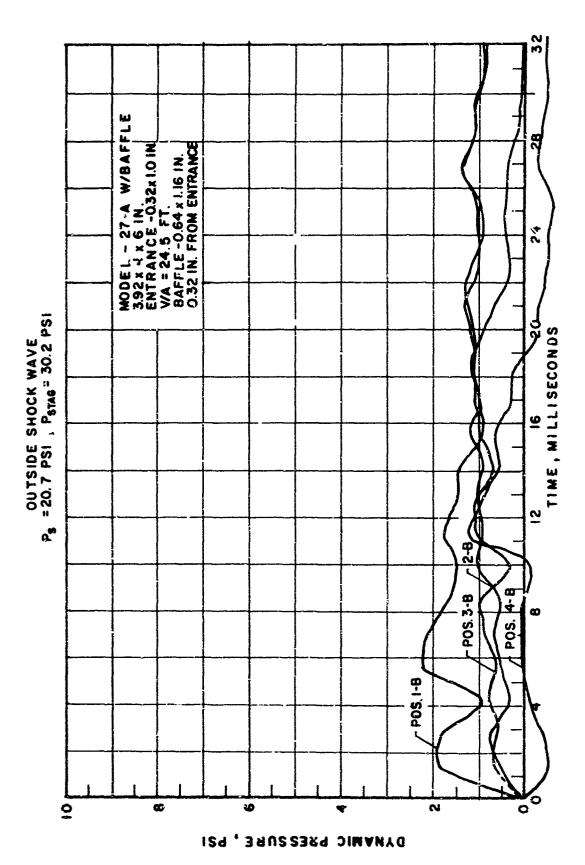


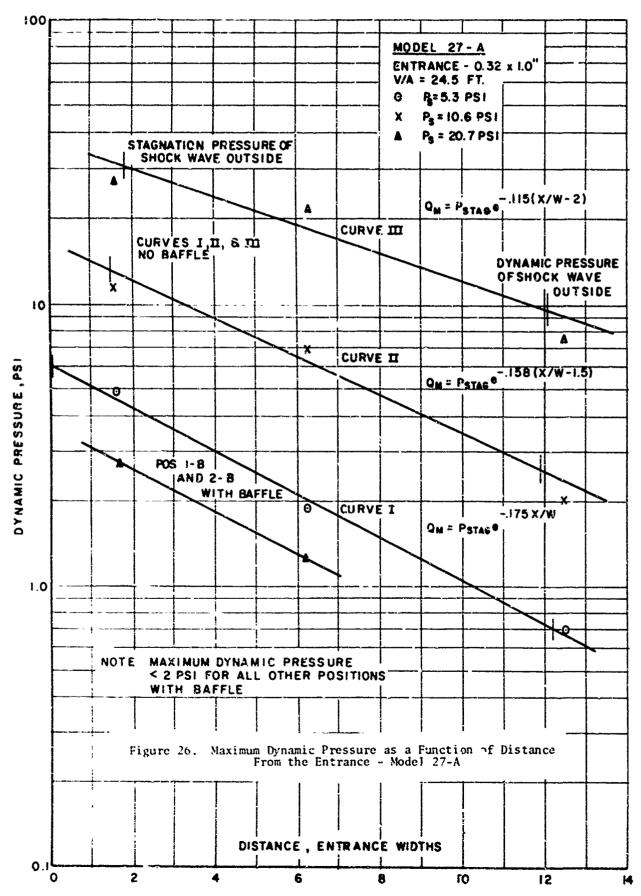
Figure 24. Dynamic Pressure off Centerline - Model 27-A, with Baffle - $P_S = 10.4 \text{ psi}$.



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Figure 25. Dynamic Prossure off Centerline - Model 27-A, with Baffle - $P_{\rm S}$ = 20.7 psi.



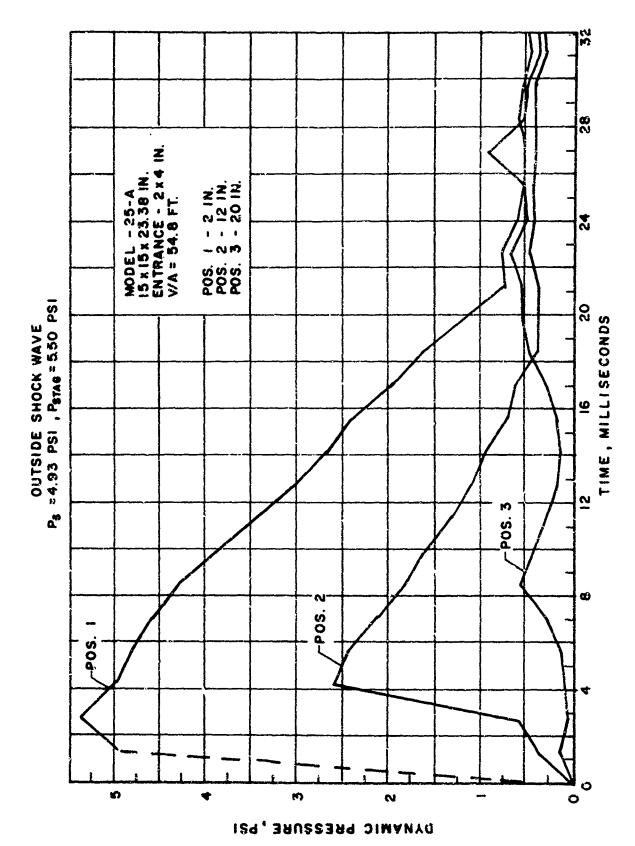


Figure 27. Dynamic Pressure - Model 25-A, $P_s = 4.9 \text{ psi}$.

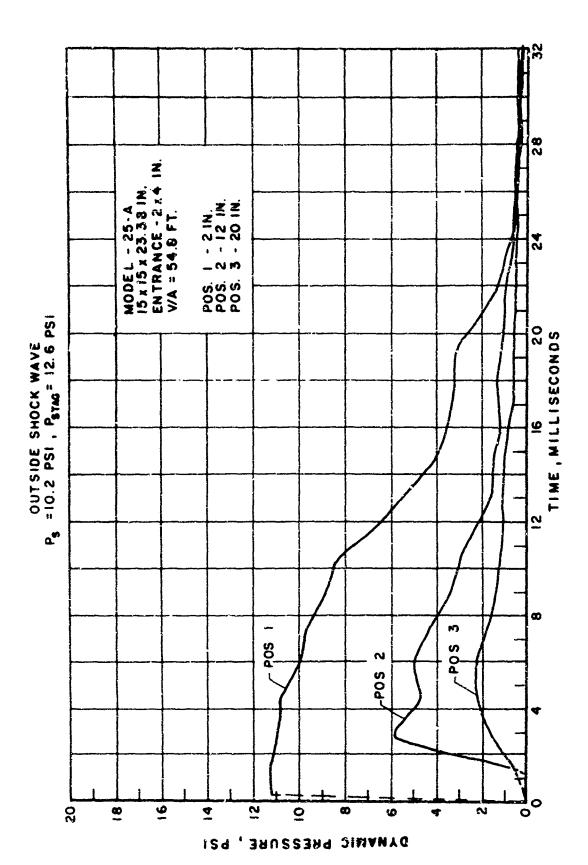


Figure 28. Dynamic Pressure - Model 25..A, $P_s = 10.2 \text{ psi.}$

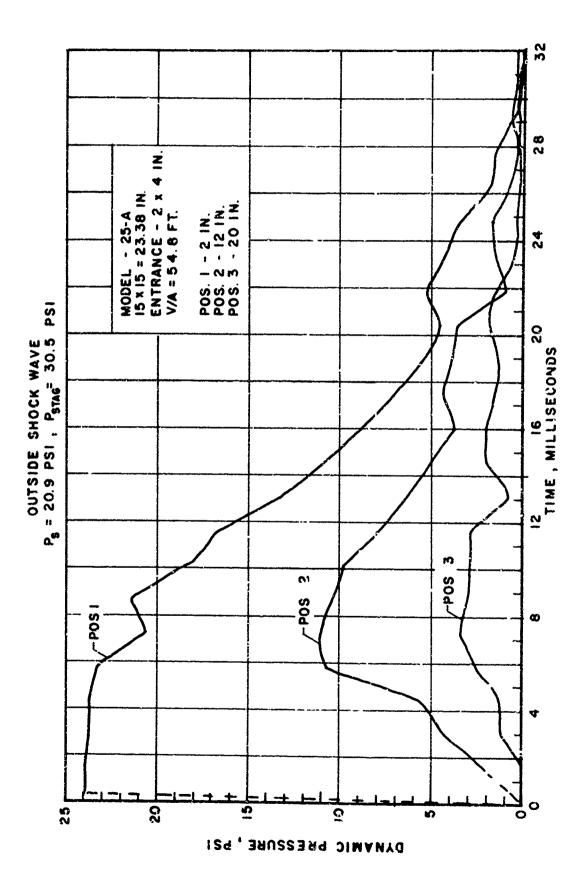


Figure 29. Dynamic Pressure - Model 25-A, $P_s = 20.9 \text{ psi}$.

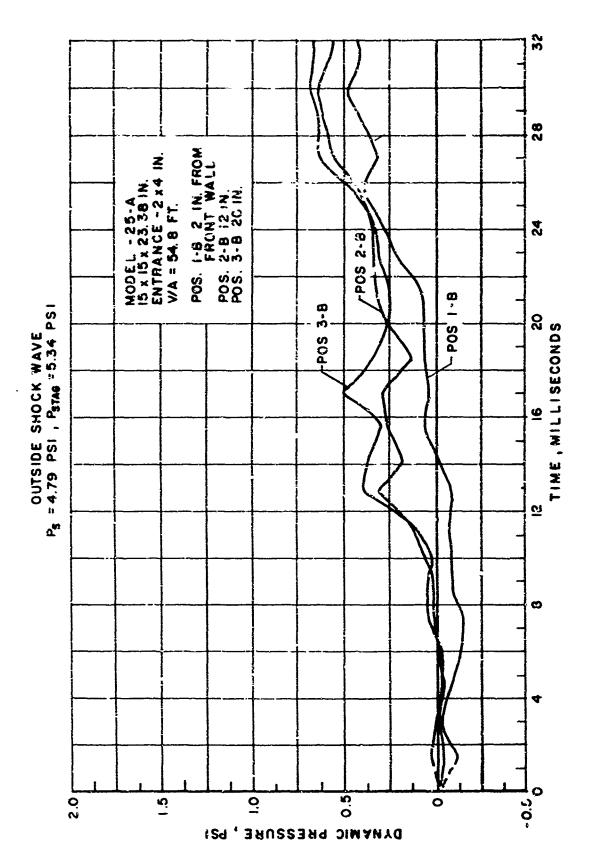


Figure 30.' Dynamic Pressure off Centerline - Model 25-A, $P_{\rm S}$ = 4.8 psi.

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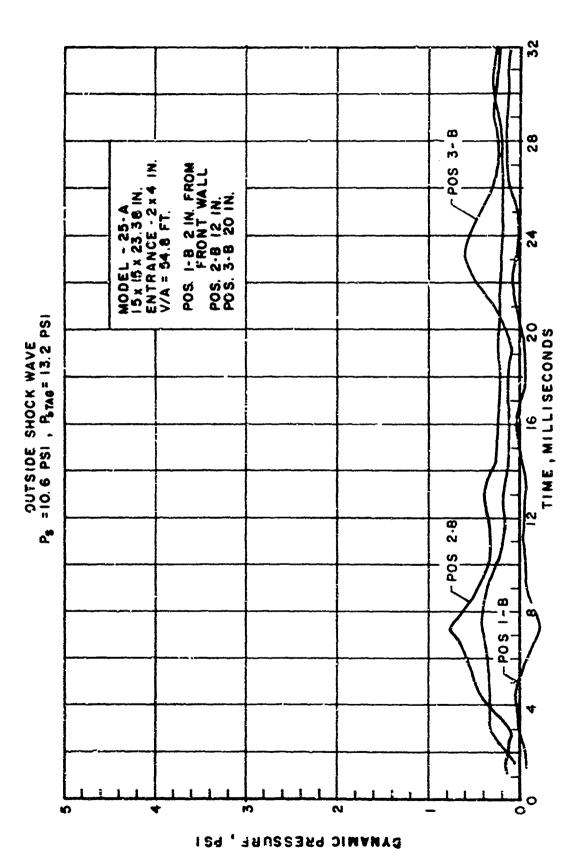


Figure 31. Dynamic Pressure off Centerline - Model 25.A, $P_{\rm S} = 10.6~\rm psi.$

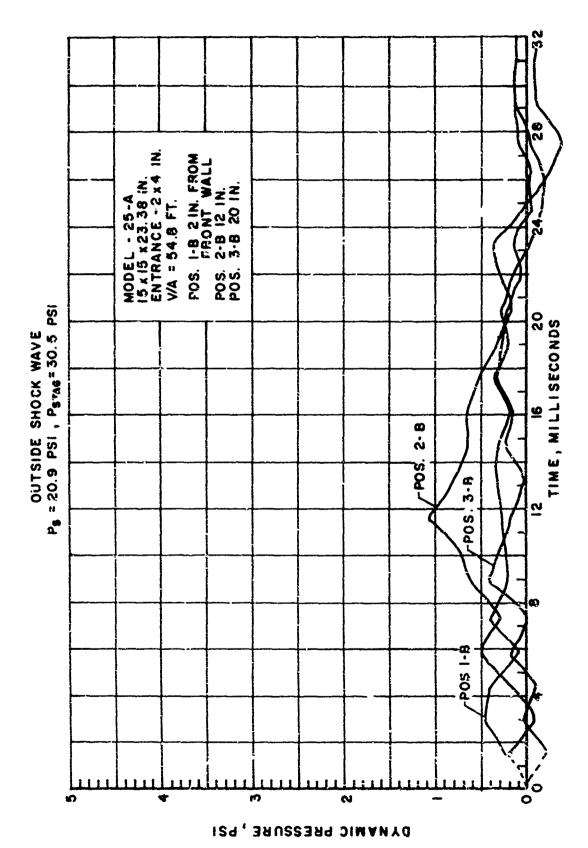
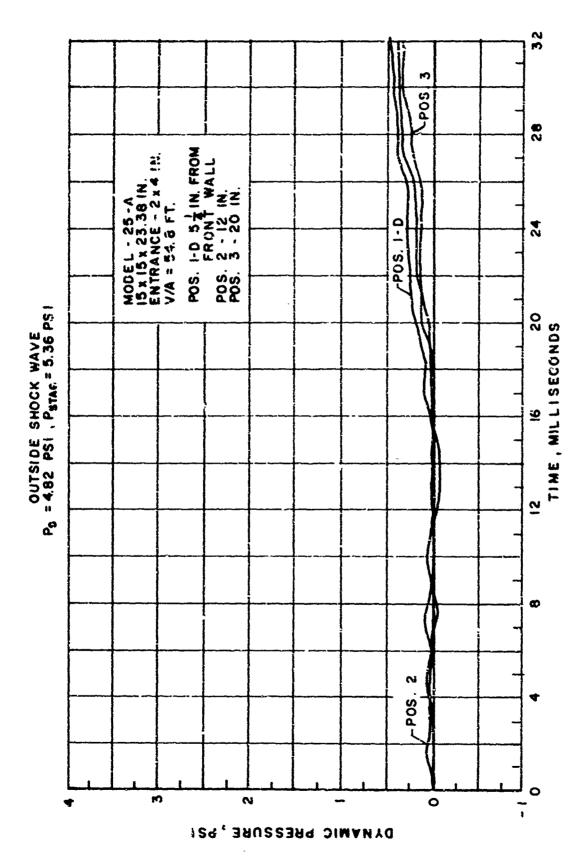


Figure 32. Dynamic Pressure off Conterline - Model 25-A, $P_s = 20.9 \text{ psi}$.



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Figure 33. Dynamic Program - Model 25-A, with Baffle $P_{S} = 4.8 \text{ psi}$.

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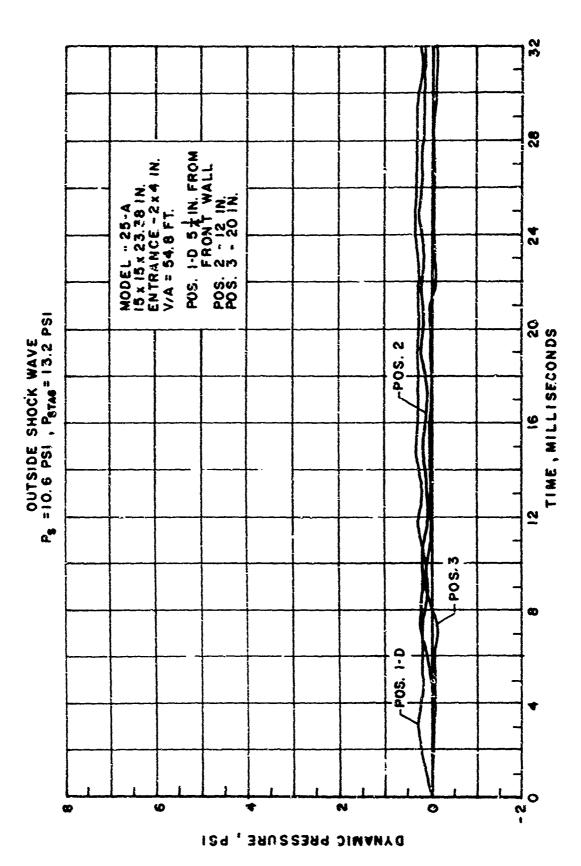
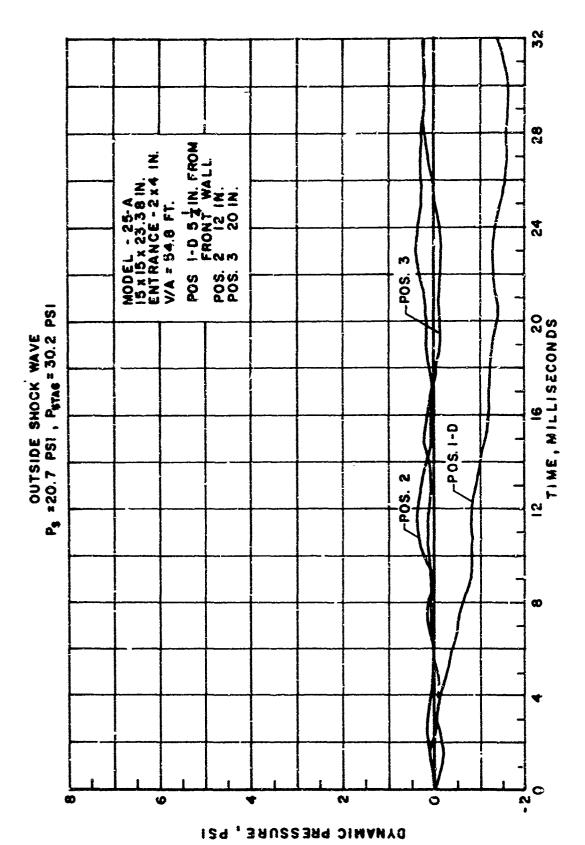


Figure 34. Dynamic Pressure - Model 25-A, with Baffle p. 10.6 psi.



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Figure 35. Dynamic Pressure - Model 25-A, with Baffle $P_s = 20.7 \text{ psi.}$

the both the factor of the sound and selected the sound of the contract of the

A re-direction of the flow by the baffle causes Pos. 1-B (off centerline) to show an increase in dynamic pressure (Figures 36 - 38) over the pressures calculated from the previous shots without the baffle. At the other positions off the centerline (2-B and 3-B) the dynamic pressure still remains low as before.

Figure 37 shows plots with dynamic pressure apparently going below zero. Since the graph is a plot of stagnation pressure minus side-or fill, a negative value means that there is no component of air flow which strikes the transducer face-on to add a dynamic value to the side-on value the transducer measures. If a time-space fluxuation in side-on fill pressure occurs at the probe and gives less pressure than the flush mounted side-on fill transducer, then the subtraction will appear to give a negative dynamic pressure.

Figure 39 summarizes the maximum values of dynamic pressure for Model 25-A. Again, the curves are similar to those obtained from Model 27-A. After about two entrance widths, all positions with the taffle in place showed pressure below a safe level of 3.7 psi (Reference 8).

IV. SUMMARY AND CONCLUSIONS

A. Model Study

The authors of References 2, 6, and 8 have predicted areas of high speed flows on or near the centerline of the entrance of a room or shelter in which an exterior blast or shock wave is causing the air flow. Similar predictions were obtained from the two-dimensional computer program (RIPPLE) at BRL.

The results from the BRL computer program indicated high speed flows of several hundred feet per second were predicted along the entrance centerline. For the 5 psi input used, the high speed flows rapidly decay below 200 - 300 ft/sec at a distance of about two entrance widths into the model. The high speed flow does not appear to exist much past the entrance edges in a side direction off-axis.

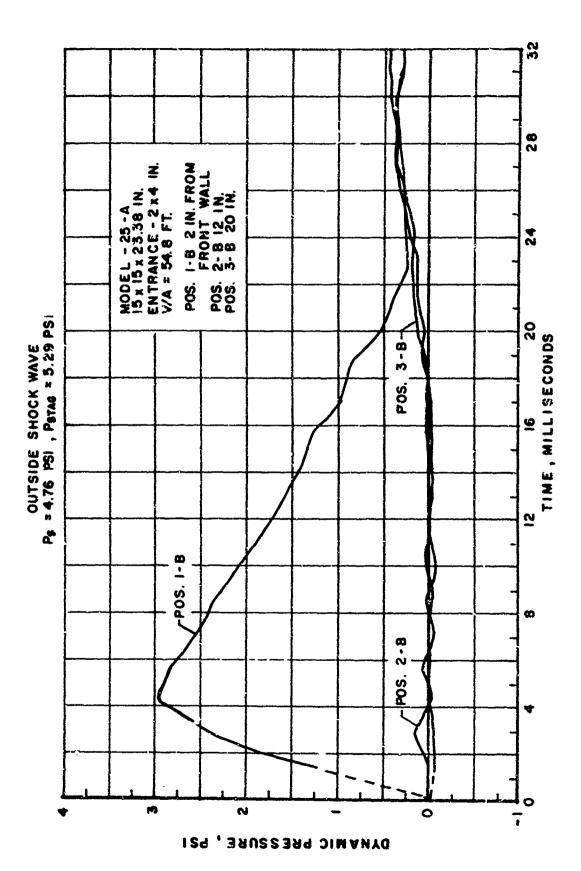


Figure 36. Dynamic Pressure off Centerline - Model 25-A, with Baffle - $P_{\rm S}$ = 4.8 psi.

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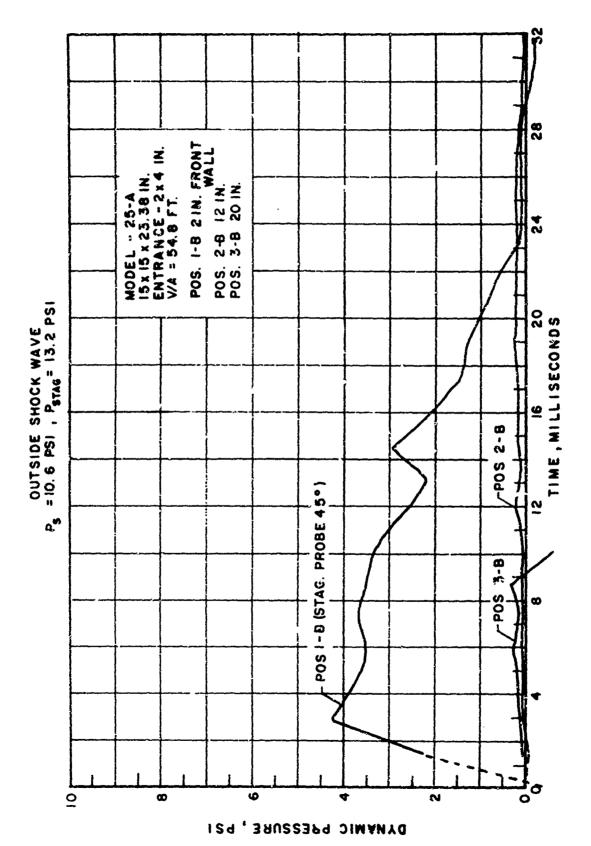
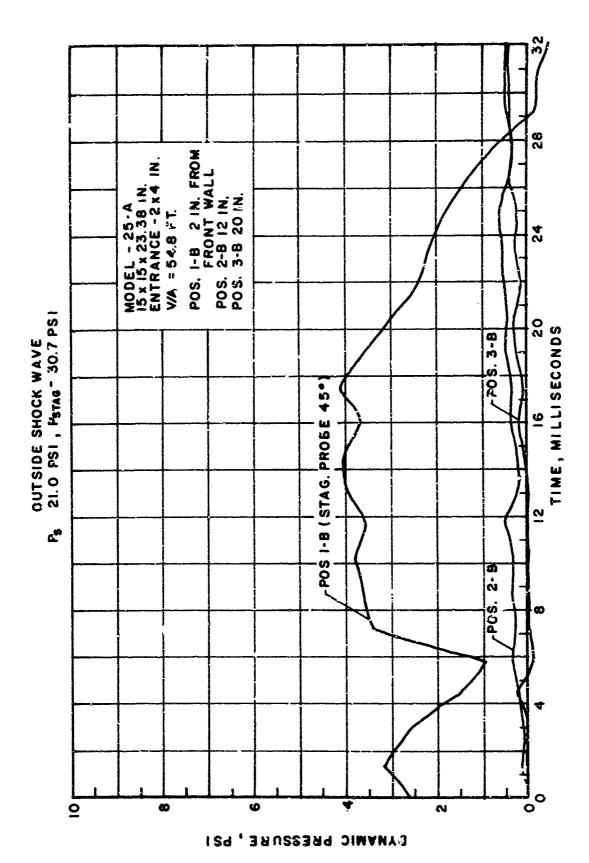


Figure 37. Dynamic Pressure off Cen $^{+}$ and - Model 25.A, with Baffle - 2 = 10.6 psi.

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Figure 38. Dynamic Pressure off Centerline - Model 25-A, with Baffle - $P_S = 21~psi$.

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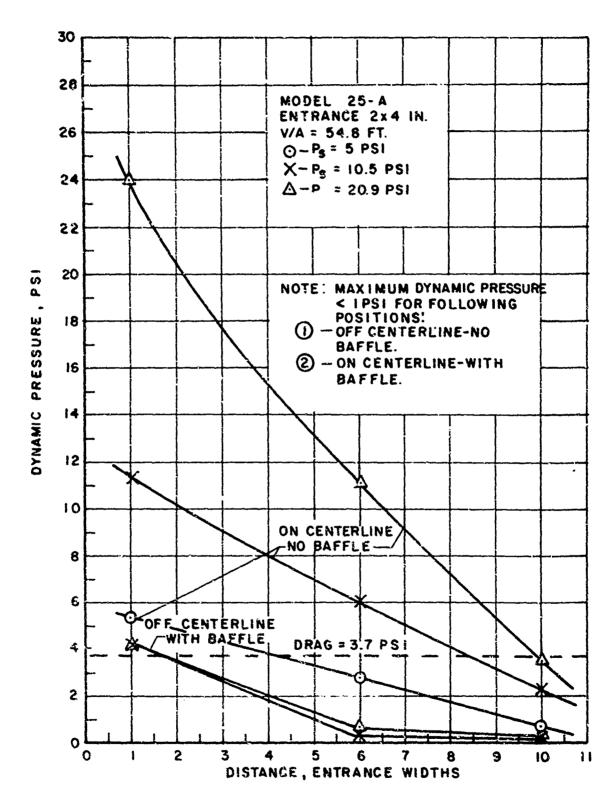


Figure 39. Maximum Dynamic Pressure as a Function of Distance From the Entrance - Model 25-A

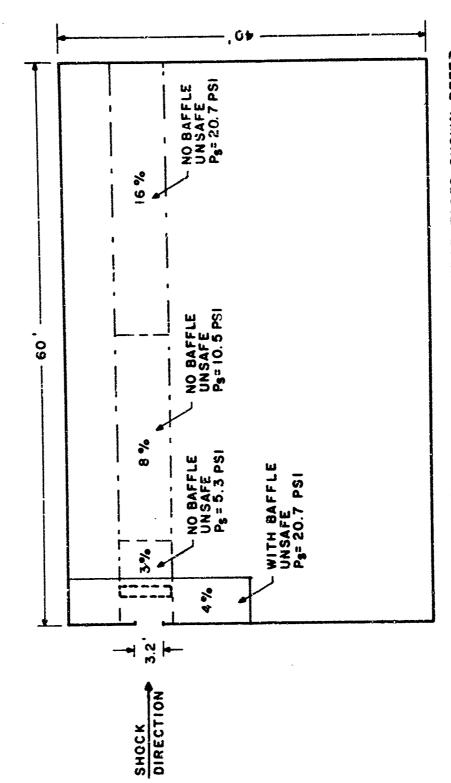
The limit might extend to a half entrance width either side of the entrance. With the baffle inside the entrance (one entrance width away), the computer program predicts high speed flows of several hundred feet per second between the front wall and the baffle. Again, the high speed does not appear to extend much beyond the baffle.

Experimentally, both Models 27-A and 25-A showed flows existed of the predicted configuration and magnitude. Dynamic pressures were measured in both models without baffles which approached stagnation pressure values of 5.8, 13.0, and 30 psi for average input shock overpressures of 5.2, 10.5, and 20.8 psi. The maximum dynamic pressure approximately equaled the stagnation pressure of the external shock wave used in each shot. If densities of about 0.063 slugs/ft³ are used as predicted in the two-dimensional experiments (Reference 2), then air flow speeds corresponding to dynamic pressures of 5.8, 13.0, and 30 psi would be 746, 1120, and 1700 ft/sec. The value 746 ft/sec compares favorably with the trends shown in Figure A-2, Appendix A. The axial velocities shown for the open model range from 723 - 625 ft/sec near the entrance for the 5 psi input shock wave. The transducer measurements are consistent with the smoke tracer experiments and the predicted flow trends of the computer program.

B. Application to Full-Size Rooms

The curves of Figures 26 and 39 may be used to predict the unsafe area in the corresponding full-size shelter rooms. For example, if a safe value of dynamic pressure is chosen to be <3.7 psi (Reference 8), points on the curves may be found corresponding to positions in entrance widths which represent pressure values below 3.7 psi.

It should be noted this limiting value of dynamic pressure from Reference 8 is based upon statistics obtained from pilots that were ejected from their aircraft into the airstream. Long duration flow is assumed and the damage is probably caused by the high rate of acceleration when the airstream hits.



NOTE: PERCENTAGES SHOWN REFER TO PERCENT OF TOTAL FLOOR SPACE. ROOM - 40'x 60', 10 FT. HIGH

ENTRANCE - 3.2 x 8 FT. V/A = 938 FT. 21./A1 = 106 MSEC.

Figure 40. Full-Size Room for Model 27-A

NOTE: PERCENTAGES SHOWN REFER TO PERCENT OF TOTAL FLOOR SPACE. ENTRANCE 4' x 8'
HEIGHT OF ROOM - 10'
V/A = 439 FT.
2L
A: = 82.5 MSEC

SHOCK WAVE DIRECTION ----

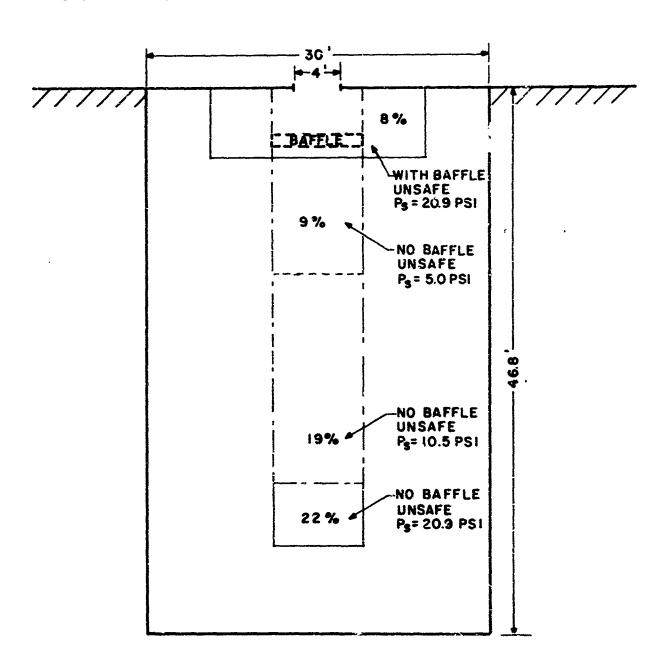


Figure 41. Full-Size Room for Model 25-A

To illustrate the use of Figure 39 for this given limiting value, a line is drawn across the graph at 3.7 psi. The line cross the 5, 10.5, and 20.9 psi input curves at distances of 4, 8.5, and 10 entrance widths, respectively. These are the axial limits for the 3.7 dynamic pressure level into the room. If the influence to the side of the jet is bounded by about one-half entrance width to each side, unsafe areas are defined for the room. For quick comparison, the unsafe areas are given in percentages of total available floor space. Figures 40 and 41 illustrate the use of this procedure from the curves of Figures 26 and 39.

The addition of a baffle inside the entrance allows the external shock wave pressure to be increased from 5.2 to 20.8 psi while still maintaining the approximate same safe area.

The room volume to entrance area ratio, V/A, in Figures 40 and 41 largely determines the total room filling time and therefore, the total duration of the incoming flow with its potential for damage by translation. The factor $2L/A_1$ shown represents approximately two shock wave crossing times (for the weak internal shock wave). This factor represents an approximate time one may expect high dynamic pressure (about equal to a stagnation value) since very little over all side-on pressure increase has occurred as yet during this period.

To summarize, the initial high values of dynamic pressure continues with little decrease until the side-on pressure increase causes the difference between stagnation and side-on pressure to become smaller and smaller. At the time the entire room volume is filled to the maximum value of side-on pressure, the dynamic pressure approaches a minimum value. The dynamic pressure apparently follows the outside conditions pretty much for the remaining shock wave duration.

ACKNOWLEDGEMENTS

The author wishes to thank Dr. V. Kucher and Mr. J. T. Harrison for their expert programming of the two-dimensional models with the RIPPLE Code, and also to thank Mr. W. T. Matthews for the design of the intricate models used with the smoke grid technique.

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- 5. Joseph F. Melichar, "Air-Blast-Induced Aerodynamic Effects in Blast-Slanted Basement Shelters," URS Research Company, 1811 Trousdale Drive, Burlingame, California 94010, URS 692-3, January 1969.
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- 8. H. M. Childers and others, "Final Report Protective Capability of The National Fallout Shelter System," The Vertex Corporation, 10400 Connecticut Avenue, Kensington, Maryland 20795, Vertex TR No. 68-2, November 1968.

APPENDIX A

RIPPLE PROGRAM VELOCITY PREDICTIONS FOR TWO-DIMENSIONAL MODELS

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USE OF APPENDIX A

Comparisons of air flow components, predicted by the BRL RIPPLE computer program, are given for a 4 x 4-inch two-dimensional model with and without a baffle inside the entrance. Radial and axial components of flow are shown in separate figures. The values shown are for discrete readout times beginning when the input shock wave ($P_s = 5$ psi) was about 78 µsec away from the outside of the front of the model. The sign convention for the flow components is shown on each figure.

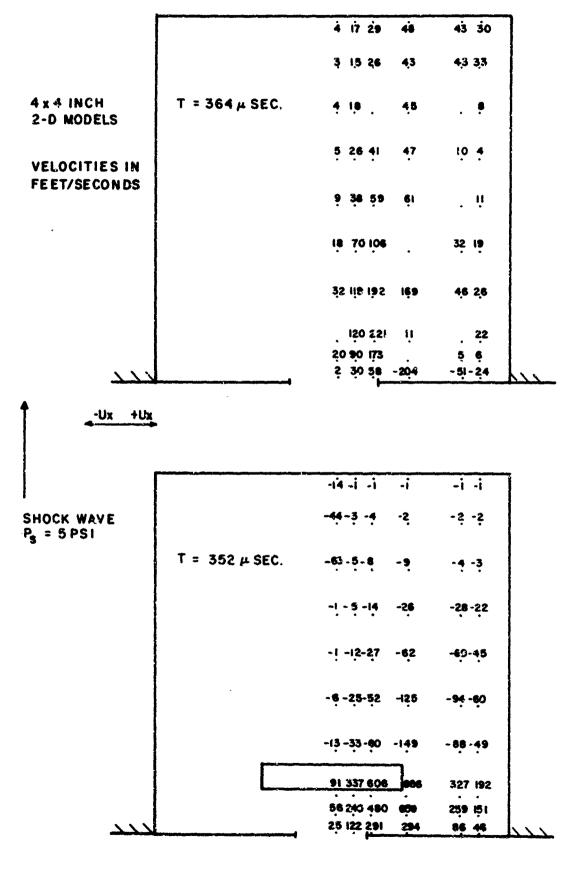


Figure A-1. Radial Velocities - 358 Microseconds

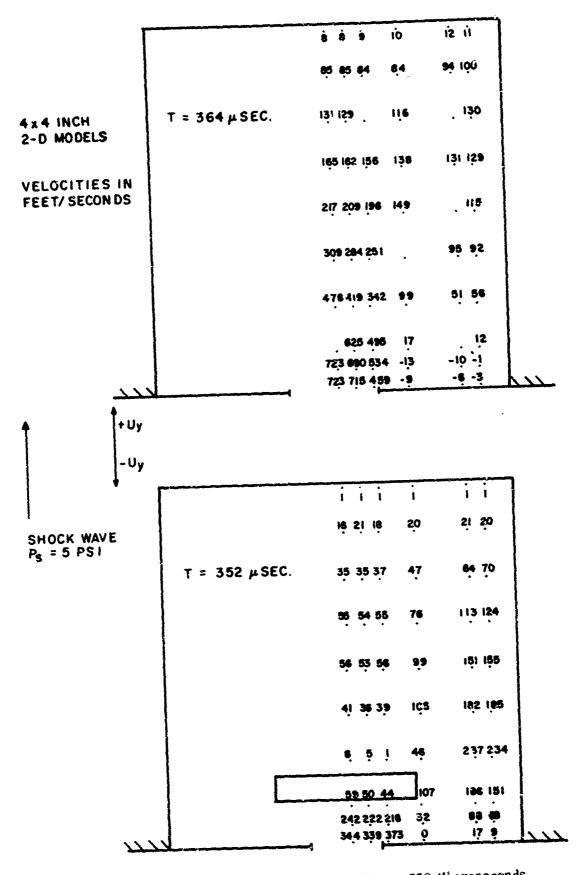
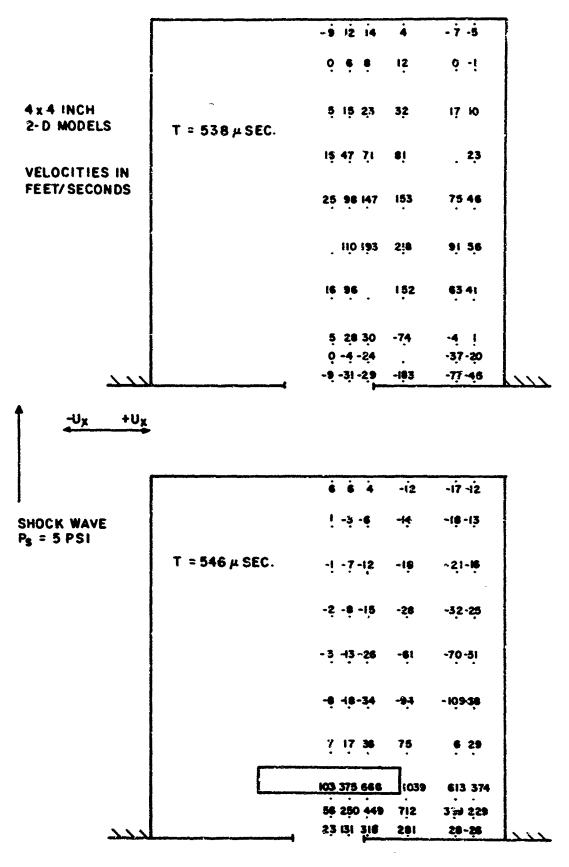


Figure A-2. Axial Velocities - 358 Microseconds



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Figure A-3. Radial Velocities - 542 Microseconds

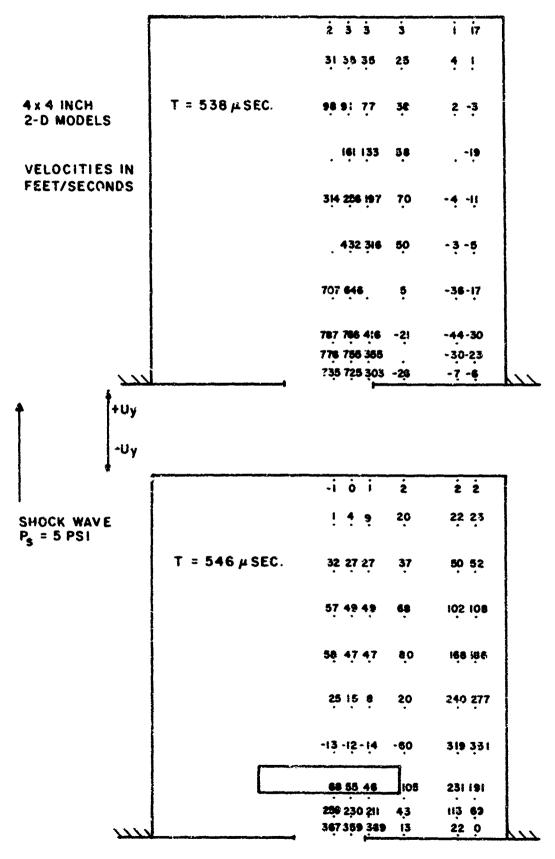


Figure A-4. Axial Velocities - 542 Microseconds

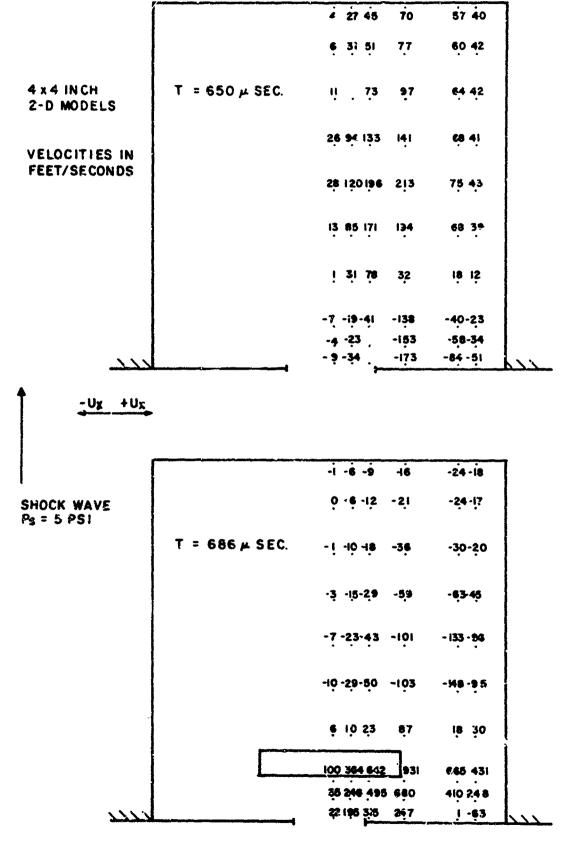


Figure A-5. Radial Velocities - 668 Microsecords

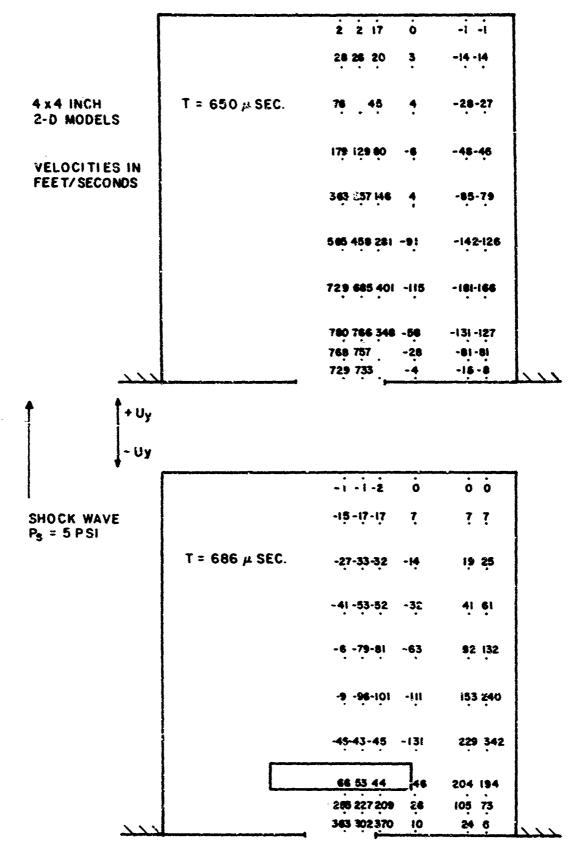


Figure A-6. Axial Velocities - 668 Microseconds

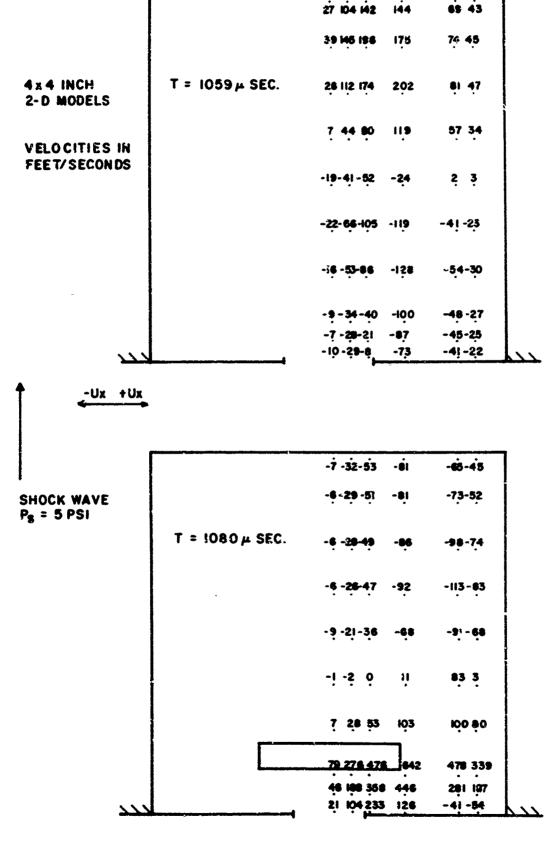


Figure A-7. Radial Velocities - 1070 Microseconds

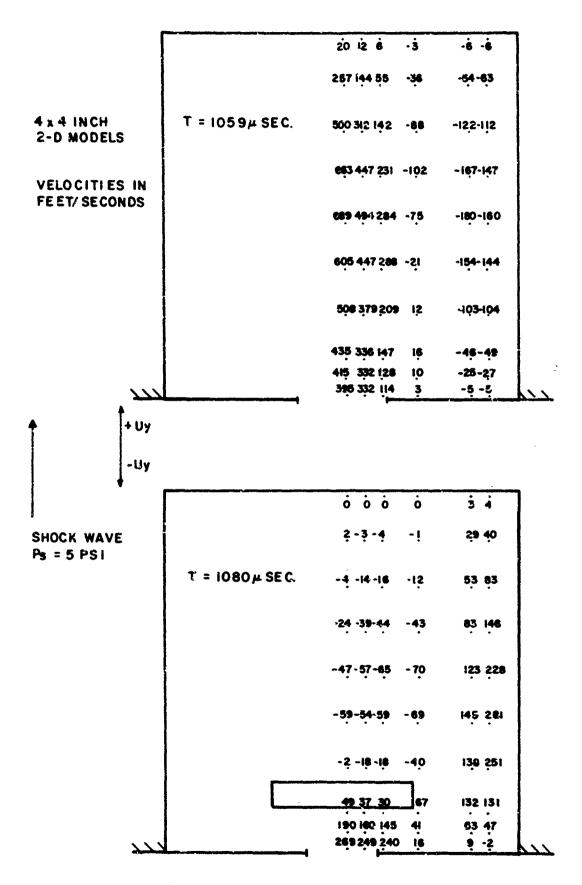


Figure A-8. Axial Velocities - 1070 Microseconds

APPENDIX B

AIR FLOW TABLES AND VECTOR PLOTS

USE OF APPENDIX B

The first part of Appendix B consists of tables of calculations made from the smoke grids and the second part consists of plots of air flow vectors (scale 1 in. = 200 ft/sec) computed for several grid intersections for discrete frame times which illustrate the many flow directions. Also given, is a time-space plot of the first row of four grid intersections. These start at an initial time labeled "start" to end times "T".

The tables list the frame time in microseconds measured from time of shock exit from entryway, the x - y coordinates in inches as measured from an origin at the inside, lower left bottom of the model, the average velocity of a particular smoke grid intersection (positions in frames behind and ahead of the given frame in time are used to find the average for the known camera framing speed), average angle of flow direction measured from a horizontal axis, the density obtained from the grid size and undisturbed grid area (density), and Q (equal to one-half the density times the velocity squared.

APPENDIX B

I. AIR FLOW TABLES

Table B-1. Front-Upper Grid Calculations - Model 35

		Υ	U	THETA	DENSITY	Q
TIME	X	INCHES	FT/SEC	DEGREES	SLUGS/CUFT	LB/SQFT
MICROSEC	INCHES	TMC11E2	F173EC	DEGMEE		
16 00	•5546	3.0777	20.0	• 0	.002342	.47
15.00	•5428	2.6706	18.9	- 32.0	.002156	• 38
	•5270	2.4346	26.1	- 57.5	.QU2198	.75
	•5015	2.0118	17.1	- 69.4	.002254	。33
	.4838	1.6441	14.4	- 33.7	.002254	•23
	•9282	3.0993	26.3	8.7	.002331	.81
	.9322	2.6116	28.8	- 33.7	.002109	•88
	.9263	2.4444	33.3	- 57.3	.002175	1.20
	.9751	2.0157	41.0	- 47.0	.002226	1.87
	.8653	1.6421	14.1	- 81.9	.002226	•22
	1.3117	3.1131	46.1	- 5.0	.002357	2.51
	1.2881	2.5546	16.5	- 14.0	.002126	•29
	1.2822	2.4248	41.7	16.7	.002342	2.04
	1.2212	1.9843	30.4	- 23.2	.002340	1.08
	1.1603	1.6303	24.1	- 41.6	•0ü2340	•68
	1.6971	3.1091	17.2	54.5	.002357	•35
	1,6912	2.5192	5.3	-108.4	.002126	• 04
	1.6755	2.4267	11.3	- 45.0	.002342	•15
	1.6342	1.9843	12.2	- 80.5	.002340	.17
	1.5851	1.6146	8.0	• 0	.002340	•07
56.7ú	•6020	3.1240	116.6	32.6	.002208	15.03
20010	.5700	2.7060	59.0	1.9	.002148	3.74
	•5580	2.4660	47.5	- 7.1	·0ú2254	2.55
	•5360	2.0600	36.1	60.6	.Cu2361	1.54
	•5200	1.6880	53.7	66.3	.002361	3.40
	9820	3.1400	70.8	33.7	.002240	5.62
	•9620	2.5240	52.3	34.3	.002346	3.21
	9540	2.4600	39.7	39.8	•002206	1.04
	.9180	2.0440	61.5	16.7	.002304	4.36
	.8820	1.6980	32.0	42.5	.002304	1.18
	1.3680	3.1240	53.1	39.0	.002450	3.45
	1.3300	2.5760	58.9	36,9	.002672	4.64
	1.3189	2.4800	50.1	41.8	.002412	3.03
	1.2540	2.0280	57.8	54.7	.002462	4.11
	1.1860	1.6720	32.2	37.6	.002462	1.28
	1.7380	3.1560	41.8	46.8	.002450	2.14
	1.7120	2.5440	25.2	51.3	.002672	• 85 24
	1.6960	2,4560	16.7	45.0	.002412	. 34
	1.6460	2.0160	32.5	65.0	.002462	1.30
	1.6020	1.6600	33.8	54.5	.002462	1.41

Table B-1. Front-Upper Grid Calculations - Model 35 (Continued)

TIME	*	Y	υ	THETA	DENSITY	0
MICROSEC	INCHES	INCHES	FT/SEC	DEGREES	SLUGS/CUFT	LB/SQFT
MICKOSEC						
98.40	.6529	3.1406	139.9	• 8	.002333	22.84
	.6018	2.6726	144.6	- 49.5	.002182	22.81
	.5742	2.4287	120.7	- 61.3	.002245	16.36
	.5192	2.0433	85.4	- 79.3	.002187	7.98
	.5054	1.6932	36.0	- 93.2	.002187	1.42
	.9872	3.1386	52.1	- 32.5	.062356	3.20
	.9754	2.6411	60.9	- 41.0	.001967	3.65
	9499	2.4641	60.9	- 66.8	.002261	4.19
	.9341	2.0334	43.0	- 68.2	.002244	2.08
	.8889	1.6637	62.2	- 95.5	.002244	4.35
	1.3530	3.1465	28.6	- 24.8	.002476	1.01
	1.3353	2.5900	26.8	- 26.6	.002170	.78
	1.3196	2.4582	58.2	- 74.1	.002557	4.33
	1.2547	2.0315	34.5	- 80.0	.002315	1.38
	1.1858	1.6500	20.4	-101.3	•002315	•48
	1.7247	3.1406	37.5	-115.2	.002476	1.75
	1.7070	2.5388	26.7	- 77.0	.002170	•77
	1.6873	2.4385	30,6	- 78.7	•002557	1.19
	1.6480	2.0138	17.9	- 63.4	.002315	• 37
	1.6047	1.6421	40.4	- 98.5	.0û2315	1.89
140-10	.7420	3.1260	141.8	- 4.5	.002399	24.13
140610	6640	2.5960	120.0	- 39.7	.002362	17.01
	6160	2.3600	104.7	- 50.3	.002510	13.75
-	.5520	1.9760	93.7	- 44.2	.002469	12.02
	. 5180	1.6520	78.5	- 67.9	.002469	7.60
	- 1.0260	3.1120	82.6	- 2.7	.002346	8.01
	1.0080	2,5840	113.4	- 33.7	.001993	12.81
	.978C	2.4040	115.6	- 31.8	.002371	15.85
	.9340	2.0040	76.9	~ 57.5	.002333	6.89
	.8760	1.6360	50.0	- 45.0	.002333	2.92
	1.3940	3.1120	77.3	- 7.3	.002676	7.99
	1.3540	2.5640	82.6	- 38.2	.002204	7.51
	1.3340	2.4240	77.3	- 27.2	.002559	7.65
	1.2600	1.9940	62.1	- 55.3	.002424	4.68
	1.1820	1.6520	34.8	- 47.3	.002424	1.47
	1.7220	3.1220	61.7	- 9.2	.002676	5.09
	1.7130	2.5180	63.3	- 25.8	.002204	4.41
	1.7020	2.4260	72.9	- 14.0	.002559	6.80
	1.6540	2.0000	51.1	- 22.6	•0ú2424	3.16
	1.5960	1.6200	43.1	- 46.8	.002424	2.25
	- -					

Table B-1. Front-Upper Grid Calculations - Model 35 (Continued)

TIME	X	γ	U	THF TA	DENSITY	Q
MICROSEC	INCHES	INCHES	FT/SEC	DEGREES	SLUGS/CUFT	LB/SQFT
181.80	. 7945	3.1308	66.0	- 1.7	.002248	4.89
	.6942	2,5959	100.9	- 33.7	·0u2096	10.66
	.6411	2.3481	78.0	- 50.2	.002277	6.93
	. 5900	1.9144	52.1	- 57.5	.0u2347	3.19
	•5349	1.6205	64.4	- 60.3	.002347	4.87
	1.0698	3.1347	10.2	- 78.7	.002262	•12
	1.0698	2.5782	28.3	- 45.0	.002286	.91
	1.0482	2.4031	28.6	- 24.8	.002354	•96
	.9754	1-9685		•	.002509	
	.9243	1.6283		•	•0025C9	
	1.4297	3.1367			.002434	
	1.4002	2.5388		• ,	.002486	
	1.3884	2.4228			•0 0 2482	
	1.2901	1.9863			.062319	
	1.2094	1.6244		•	.502319	
	1.7856	3.1328			.002434	
	1.7640	2.5113		•	•0û2486	
	1.7581	2.4208	•		•002482	
	1.6952	1.9941			.002319	
	1.6342	1.6136			.002319	-
223.50	. 8080	3.1240	82.6	- 1.4	•0ú2853	9.72
	.7480	2.5400	111.9	~ 30.6	• 002838	17.76
	•6660	2.3000	83.6	- 48.8	.002732	9.53
	•5800	1.9320	51.0	- 62.4	•003032	3,94
	•5500	1.5960	75.3	- 74.9	.003032	8.60
	1.0280	3.1020	102.7	5.5	.002873	15.14
	1.7280	2.5640	82.6	- 25.3	.002753	9.40
	1.0040	2.3920	56.6	- 20.3	•002748	4.49
	•3200	1.9520	40.5	- 22.8	.002771	2.27
	•8360	1.6160	36.9	- 64.8	•002771	1.89
	1.3240	3.1080	43.9	10.3	.002575	2.49
	1.3040	2.5480	82.6	28.4	.002570	8.78
	1.2800	2.4240	62.9	1.8	.007570	5.09
	1.2000	1.9720	55.5	- 22.9	.002448	3.77
	1.0980	1.6080	56.2	- 36.5	•002448	3.87
	1.6800	3.1450	9.8	89.9	.002575	•12
	1.6400	2.5020	25.2	141.3	,002570	.81
	1.6280	2.4140	43.1	-155.8	.002570	2.39
	1.5760	1.9720	36.1	-150.6	.002448	1.59
	1.5100	1.6000	42.5	-146.3	•002448	2.21

Table B-1. Front-Upper Grid Calculations - Model 35 (Continued)

TIME	X	Y	บ	THETA	DENSITY	Q
MICROSEC	INCHES	INCHES	FT/SEC	DEGREES	SLUGS/CUFT	LB/SQFT
	· -					
265.20	.8771	3.1208	34.1	- 20.6	.002075	1.21
	•7906	2.5388	62.8	- 99.2	.002297	4.52
	•69 6 2	2.2852	60.8	- 99.5	.002361	4.36
	•6136	1.9292	61.0	-121.6	.002210	4.11
	•5546	1.5477	81.5	-144.0	.002210	7.35
	1.1721	3.1445	68.7	171.6	.002459	5.80
	1.1445	2.5428	53.6	-153.4	.002161	3.11
	1.1013	2.3835	102.1	-156.9	.002236	11.65
	1.0128	1.9528	131.5	-160.5	.002241	19.37
	•9400	1.5949	149.7	-145.9	+002241	25.09
	1.4730	3.1445	117.0	172.1	.003091	21.16
	1.4730	2.5782	68.8	-144.5	.002472	5.84
	1.4513	2.4248	89.5	-150.5	.003161	12.65
	1.3412	1.9587	105.5	-155.4	.002831	15.76
	1.2547	1.5910	91.7	-159.6	.002831	11.90
	1.7856	3.1406	78.0	-177.1	.003091	9.41
	1.7443	2.5270	62.0	180.0	.002472	4.74
	1.7188	2.4031	76.2	-175.5	.003161	9.17
	1.6637	1.9754	73.7	-167.5	.002831	7.69
	1.5988	1.5870	91.3	-169.9	.002831	11.81
306.90	.8400	3.1120	112.3	4.0	.003708	23.37
	•7380	2.4780	110.2	- 50el	,003720	22.59
	•6560	2.2400	91.7	- 45.0	.003877	16.30
	•5480	1.8800	74.4	- 77.8	.003764	10.41
	•4840	1.5480	40.5	- 50.9	.003764	3.09
	•9600	3.1120	63.4	- 7.1	• 002951	5.92
	•9800	2.5400	89.1	- 48.6	·002524	10,02
	.9100	2.3520	54.2	- 43.5	.002540	3.73
	•7960	1.9080	72.5	- 57.2	.002423	6.37
	•7120	1.5320	60.9	- 69.2	•002423	4.50
	1.2080	3.1240	96.4	- 16,6	.002363	10.96
	1.2480	2.5080	74.6	- 71.6	.002529	7.03
	1.2020	2.3800	48.8	- 40.1	•002489	2.96
	1.1040	1.9280	47.3	- 41.6	.002459	2.75
	1.0120	1.5760	28.1	- 65.2	3002459	.97
	1.6020	3.1360	85.1	- 18.9	•CU2361	8.56
	1.5780	2.5020	83.9	- 16.3	•002529	8.91
	1.5520	2.4080	74.8	3.0	• 902489	6.96
	1.5040	1.9560	62.1	- 34.7	•002459	4.75
	1.4200	1.5840	73,4	- 20.4	. 002459	6.62

Table B-1. Front-Upper Grid Calculations - Model 35 (Continued)

Model 35, Shot 331

				THETA	DENSITY	Q
TIME	X	Y	() 574656	DEGREES	SLUGS/CUFT	LB/SQFT
MICROSEC	INCHES	INCHES	FT/SEC	DEDKEE 3	35003700.	
	•9892	3.1367	133.9	•0	.002035	18.24
344.60		2.4543	180.0	- 1.9	.042883	46.69
	.8614	2.2203	145.G	- 29.7	.0ú2326	24.45
	, 7611	1.8504	125.5	- 37.2	.002292	18.05
	.6293	1.5162	190.2	- 23.5	.002292	11.52
	.5801	3.1367	291.9	1.6	.002283	97.24
	1.2350	2.4759	257.8	- 7.1	.002970	98.68
	1.2035		284.1	- 7.3	.062224	89.71
	1.1406	2.3461	261.8	- 7.0	.002387	81.76
	1.0521	1.8918	243.9	- 1.9	.002387	71.01
	.9617	1.5379 3.1170	377.7	•0	.002782	198.44
	1.5654		273.8	1.3	.002843	106.62
	1.4966	2,5974	284.6	- 4.4	.002805	113.63
	1.4887	2.3933	296:4	- 3.9	.002603	114.36
	1.3766	1.9272	283.8	~ 4.4	.002603	102.62
	1.7665	1.6654	283.6	- 6.5	.002782	111.87
	1.8663	3.1131	277.8	.4	·Cu2843	109.71
	1.8250	2.5034	258.6	- 4.4	.002805	93.78
	1.7935	2.4571	249.0	- 5.5	.002603	80.66
	1.7148	1.9410	260.3	- 3.5	.002603	88.17
	1.6676	1.5615	32.7	-122.7	.002153	1.15
390.30	.9740	3.1120	68.4	- 39.2	.002097	4.91
	.9180	2.4/20	86,1	- 62.9	.002414	8.95
	.7820	2.1680	81.8	~ 65.9	.002547	8.52
	•64RÖ	1.8040	77.3	- 82.7	.002547	7.60
	.5760	1.5080	49.2	- 2.3	.002385	2.88
	1.2520	3.1200	82.6	38.2	.002261	7.71
	1,2360	2.5080	74.8	- 29.9	.002429	6.80
	1.1920	2.3160	36.2	- 40.6	.0.2228	1.46
	1.7560	1.8760	33.5	- 49.8	.002228	1.25
	.9560	1.5240	26.2	13.0	.002785	. 95
	1.5860	3.1240	62.9	1.8	.002130	4.22
	1.5720	2.5140	42.1	- 37.4	.002757	2.44
	1.4860	2.3580		- 63.4	.002707	2.61
	1.4000	1.9040	43.4	- 49.4	.002707	1.78
	1.2920	1,5520	36.2 10.0	78.7	.002785	.14
	1.8840	3.1040	10.0 11.5	- 59.0	.002130	.14
	1.8560	2.5040	26.7	- 36.0	.002757	•98
	1.8100	2.3850	21.2	~111.8	.002707	.61
	1.7520	1.9320		- 76.0	.002707	• 09
	1,6800	1.5680	8.1	- 1010	# ·· • * · ·	-

Table B-1. Front-Upper Grid Calculations - Model 35 (Continued)

TIME	x	Y	U	THETA	DENSTTY	Q
MICROSEC	INCHES	INCHES	FT/SEC	DEGREES	SLUGS/CUFT	LB/SOFT
MICKOSCO	• • • • • • • • • • • • • • • • • • • •				034440	43
432.00	.9715	3.1091	26.1	- 85.6	.001860	•63 7.00
1,52000	.9145	2.4110	83.6	- 44.0	.002156	7.00 9.03
	.8004	2.1436	86.1	- 4.0	.0:2435	3.89
	"6627	1.7817	57.6	- 33.7	.002342	2.89
	•5900	1.4395	49.6	- 49.9	.072342	3.48
	1.7842	3.1347	53.1	- 19.8	•002468 •002087	3.27
	1.2684	2.5270	56.0	- 2.0		4.20
	1.2055	2.3088	59.4	- 19.7	.002379	4.67
	1.0796	1.8682	62.1	~ 33.2	.002425 .002425	2.33
	.9833	1.5123	43.9	- 30.1		3.61
	1.5910	3,1229	48.C	- 2.4	.003129	4.94
	1.5595	2.5043	59.9	- 25.7	.002753	3.77
	1.5221	2.3677	50.3	- 6.8	.002976	2.15
	1.3963	1.8879	38.4	- 51.3	.002913	1.82
	1.2901	1.5379	36.0	- 19.4	.002913 .003129	2.18
	1.9682	3.1229	37.3	15.5	.002753	1.37
	1.8309	2.4936	31.6	- 55.3	.002133	4.66
	1.8151	2.3913	56.0	.0	.002913	3.92
	1.7070	1.9213	51.9	- 15.6	.002913	3.47
	1.6696	1.5536	48.8	- 35.0	.001971	.19
473.70	. 9760	3.0860	13.9	8.1	.001311	11.11
	•9760	2.4160	96.6	4.7	.002388	19.23
	. 8680	2.1620	92,5	3.7	.002566	5.47
	•6960	1.7720	65.3	- 21.2	.002566	4.72
	•6080	1.4700	60.7	24.9	.002383	3.47
	1,3020	3.1020	54.0	-146.9	.002300	4.83
	1.2920	2.5060	64.8	- 11 3	.002493	8.01
	1.2480	2.2960	80.2	- 11.3 - 17.9	.002467	5.05
	1.1080	1.8420	64.0	- 14.0	.002467	3.97
	•9940	1.5020	56.7	- 3.1	.002874	7.62
	1.6340	3.1220	72.8	•0	.002685	3.24
	1.5760	2.4880	49.1	•0	.002545	9.08
	1.5360	2.3520	84.5		.002608	7.59
	1.4240	1.8780	76.3	11.9 - 14.9	.002608	.4.85
	1.3260	1.5409	61.0	- 14.9 - 8.1	.002874	27.74
	1.9200	3.1140	138.9		002685	14.90
	1.8740	2.4780	105.3	- 8.6 - 4.0	•002545	16.04
	1.8660	2.3880	112.3	4.9	.002608	33.28
	1.8020	1.9180	159.8	•0	.002608	13.10
	1.7200	1.5400	100.2	• •	# 00E000	. / • • •

Table B-1. Front-Upper Grid Calculations - Model 35 (Continued)

Model 35, Shot 331

TIUL	x	Y	U	THETA	DENSITY	Q
TIME MICROSEC	INCHES	INCHES	FT/SEC	DEGREES	SLUGS/CUFT	LB/SUFT
MICKO2EC	; NOTICS	incin 3				-
515.4ú	•9853	3.1111	102.3	12.4	.002150	11.25
)[J•40	1.0108	2.4149	21.2	- 41.2	.002167	.49
	.8928	2,1495	30.0	- 53.1	.0u2398	1.08
	.7237	1.7581	30.0	- 36.9	. 002531	1.14
	•6450	1.4651	38.8	- 55.5	·0u2531	1.90
	1.2389	3.1052	30.2	- 7.6	.002171	• 99
	1.3333	2.5270	44.0	- 92.6	·0U2020	1.96
	1.2842	2.2930	8.0	- 89.9	.032405	• 08
	1.1406	1.8486	12.6	- 18.4	.002315	.18
	1.0383	1.4985	34.2	- 6.7	.002315	1.35
	1.5637	3.1190	26.7	-103.0	·002570	•91
	1.6087	2.5093	75.6	-102.2	.002472	7.07
	1.6067	2.3677			.002589	•
	1.4710	1.9036			·0u2336	-
	1.3491	1.5221			.002336	
	2.0059	3.1032	•	•	.002570	
	1.9351	2.4779			.0û2472	
	1.9272	2,3835			.002589	•
	1.8663	1.9351			.002336	-
	1.7698	1.5536			•0ú2336	
557.10	1.0760	3.1030	_		.002170	17 31
	•3920	2.4020	114.0	46.4	.002666	17.31
	. 8860	2.1389	41.5	5.4	.002549	2.19
	.7200	1.7540	41.5	5.4	.002537	2.18
	•6300	1.4330	27.3	- 59.7	•0ú2537	• 95
	1.3320	3.0940	32.0	47.5	•002402	1.23 .11
	1.2900	2.4620	6.2	18.4	•005531	16,52
	1.2480	2.2830	54.1	70 . 9	.011303	10.67
	1.1200	1.8340	41.3	25.3	.012508 .012508	7.00
	1.0280	1.4940	33.5	3.4 70.4	.011552	5.91
	1.6280	3.0960	32.0	79.4	•011532 •0u8577	6.04
	1.5600	2.4140	37.5	47.1 104.0	.002739	1.44
	1.3240	2.3460	32.4	- 11.3	.002506	.13
	1.2000	1.8780	10.0	24.8	.002506	• 99
	1.9869	1.5200	28.1 37.3	108.4	.011552	8.03
	1.6900	3.0740	31.3 44.2	69.1	.008577	8.36
	1.6480	2.4860	45.2	92.5	.002739	2.80
	1.6340	2.3780	25.5	112.6	.002506	•82
	1.5689	1.9260	19.7	84.3	.00250s	. 49
	1.4860	1.5350	1701	0443		• • •

Table B-1. Front-Upper Grid Calculations - Model 35 (Continued)

Model 35, Shot 331

TIME	X	Y	U	THETA	DENSITY	Q
MICROSEC	INCHES	INCHES	FT/SEC	DEGREES	SLUGS/CUFT	LB/SQFT
			07.0	170 0	024.27	11 40
598.80	, 9774	3.1279	97.9	-178-8	•0u2437	11.69
-	1.0895	2.5015	113.2	42.1	• 0u2396	15.35
	•9341	2.1534	46.7	- 9.9	.002439	2.65
	.7650	1.7620	48.6	- 80.5	.002371	2.80
	⊌ 5588	1.4415	36.2	- 96.3	.002371	1.55
	1.2606	3.1288	80.3	-174.3	.002110	6.81
	1.3392	2.5290	57.6	56.3	•002403	3.99
	1.3019	2.3441	24.7	14.0	·0u2379	. 73
	1.1789	1.8663	39.4	- 30.5	.002432	1.89
	1.0718	1.5005	28.6	- 77.9	.002432	1.00
	1.6696	3.1504	17.2	- 54.5	.002696	• 40
	1.6342	2.5369	90.5	68.0	.002538	10.61
	1.5988	2.3992			.002514	7.
	1.4808	1.9017			.002524	
	1.3746	1.5339	•		.002524	
	1.9941	3, 1386			.002696	
	1.9508	2.5192			•0ú2588	
	1.9253	2.4287			·0u2514	
	1.8564	1.9547			.002524	
	1.7719	1.5733	-		.002524	
640.50	•9780	3.1000	34.8	- 16.4	•0 0 2536	1.54
	1.0760	2.4780	63.1	-141.6	.002351	4.25
	•9320	2.1300	25.8	- 8.7	.002405	. 80
	. 7280	1.7060	71.2	-114.4	.002504	6.35
	•6260	1.4020	63.5	-111.8	.002504	5.05
	1.2520	3.0900	26.7	-162.9	•002358	• 84
	1.3220	2.5100	47.2	163.1	.0021C8	2.35
	1.2720	2.2940	14.3	164.1	·0\)2613	•27
	1.1540	1.8130	29.0	-118.3	·0u2715	1014
	1.0340	1.4700	53.1	-141.0	.002715	3.83
	1.6380	3.0820	58.6	-166.4	•0ú3823	6.57
	1.5940	2.4980	34.3	-166.8	•002882	1.70
	1.5680	2.3360	18.1	167.5	•005142	• 52
	1.4280	1.8700	58.6	-166.4	.002736	4.70
	1.3200	1.4900	46.7	-105.4	·0u2736	2.98
	1.8660	3.0820	55.9	169.9	.003823	5.97
	1.8400	2.4889	32.0	-169.4	.002882	1.47
	1.8320	2.3960	27.5	180.0	.003142	1.19
	1.7720	1.9420	37.8	-152.1	•002736	1.95
	1.6880	1.5500	43.1	-155.8	.002736	2.54

Table B-1. Front-Upper Grid Calculations - Model 35 (Continued)

TIME	X	Y	U FT/SEC	THETA DEGREES	DENSITY SLUGS/CUFT	Q L8/SQFT
MICROSEC	INCHES	INCHeS	117320			
			100.0	- 2.3	.002797	13.53
682 •2 9	1.0108	3.1111	46.7	133.3	.002538	2.76
	1.0423	2.4641	50.0	16.3	. NUZ378	2.97
	,9597	2.1495	57.2	- 12.1	.002456	4.02
	.7355	1.6971 1.3829	39.7	- 40.9	.002456	1.93
	.6352	3.1269	38.8	34.5	.002224	1.67
	1.2350	2.5428	55.3	139.4	.002342	3.58
	1.2940	2.3481	66.0	88.3	.002498	5.44
	1.2881	1.8407	45.3	48.6	.002682	2.75
	1.1642	1.4671	30.2	7.6	.002682	1.23
	1.0305	3.1367	41.2	112.8	.002665	2.26
	1.6126	2.5290	38.4	81.0	.002835	2.09
	1.600A	2.4031	46.4	82.6	.002382	2.56
	1.5811	1.8879	59.0	61.7	.002425	4.22
	1.4238	1.5221	41.1	29.1	.002425	2.05
	1.3294	3.1485	26.7	103.0	.002665	.95
	1.9340	2.5133	40.2	84.3	.002835	2.29
	1.9194	2.4267	38.4	81.0	.0u2382	1.75
	1.8977	1.9410	18.4	17.5	.002425	.41
	1.8230	1.5556	28.0	90. Ú	.0u2425	.95
	1.7325	3.1020	52.2	-160-2	.003142	4.28
723.70	1.0780	2.5120	47.8	80.5	.0u2491	2.85
	1.0440	2.1440	102.C	27.6	.002589	13.46 5.59
	•9800	1.6540	66.5	- 55.8	·002529	2.91
	.7840 .6560	1.3760	48.0	- 35.0	.002529	7.08
		3.1120	77.0	- 37.7	.0ú2385	.74
	1.2840	2.5460	26.4	26.6	.002128	.74
	1.2890 1.2740	2,3600	24.3	- 14.0	.002506	3.42
	1.1840	1.8529	52.2	- 19.8	.002512	2.92
	1.0640	1.4740	48.2	- 11.8	.002512	5.47
	1.6220	3.1200	53.6	- 61.6	.003804	,42
	1.6000	2.5360	16.8	20.6	•0u2956	.06
	1.5740	2.3820	6.2	18.4	.003164	7.10
	1.4560	1.9273	70.2	17.9	.002880	3.14
	1.3560	1.5100	46.7	- 22.2	.002880	11.73
	1.8600	3.1080	78.5	- 58.3	.003804	1.67
	1.8440	2.5290	33.6	- 6,7	.002956	2.76
	1.8380	2.4280	41.8	- 41.2	.003164	1.61
	1.7760	1.9630	33.4	-0	.002880	2.25
	1.6883	1.5780	39.5	5.7	.002880	£ \$ £ J
	10003					

Table B-1. Front-Upper Grid Calculations - Model 35 (Continued)

TIME X Y U THETA DENSITY	LB/SQFT
MICROSEC INCHES INCHES FT/SEC DEGREES SLUGS/CUFT	
765.60 .9617 3.0934 185.9 180.0 .002405	41.53
3.0501 2.5113 103.7 64.9 .002477	13.32
1.0501 2.1967 95.8 23.4 .002288	10.50
•7729 1.6421 107.6 - 15.1 •902604	15.08
.6745 1.3550 84.1 - 28.4 .002604	9.20
1.2960 3.0737 34.0 -139.8 .002622	1.52
1.3176 2.5546 58.8 17.8 .032297	3.97
1.3117 2.3422 64.1 - 3.6 .002520	5.17
1.2134 1.8230 57.3 - 29.2 .002566	4.21
1.0777 1.4572 58.8 - 35.3 .002566	4.43
1.6382 3.0895 20.0 -126.9 .002789	• 56
1.6165 2.5349 40.2 - 95.7 .002318	1.87
1.5870 2.4051 22.3 - 26.6 .002481	• 62
1.4907 1.9095 66.5 - 32.7 .002435	5.39
1.3727 1.5044 48.3 - 24.4 .002435	2.84
1.9803 3.0816 .002789	-
1.9528 2.5093 .002318	
1.9292 2.4012 .002481	
1.8564 1.9410 .0ú2435	
1.7719 1.5595	-
807.30 .8920 3.1020 10.0 - 78.7 .002611	•13
1.0880 2.6060 108.4 85.8 .002116	12.42
1.0680 2.1820 45.9 46.7 .002620	2.76
•8880 1•6660 124•0 - 3•6 •002826	21.74
•7300 1•3360 68•5 - 27•3 •002826	6.64
1.2580 3.0900 22.4 127.9 .002614	• 66
1.3360 2.5640 45.9 80.1 .002614	2.75
1.3380 2.3560 39.2 72.5 .002532	1.94
1.2340 1.8240 67.2 15.3 .002556	5.77
1.1120 1.4400 75.8 - 16.6 .002556	7.35
1.6100 3.1940 36.6 126.3 .020192	13.49
1.5960 2.4960 20.2 119.1 .011750	2.40
1.5940 2.3720 20.5 16.7 .011605	2.44
1.5120 1.8860 45.6 7.4 .019578	20.33
1,4000 1,4980 54.0 - 10.5 .019578	28.50
-1.5960 3.0840 20.0 101.3 .020192	4.05
1.5200 2.4920 9.8 126.9 .011750	•57
1.5200 2.4020 27.5 90.0 .011605	4.39
1.4480 1.9320 19.5 45.0 .019578	3.70
1.3900 1.5400 48.8 - 49.9 .019578	23.32

Table B-1. Front-Upper Grid Calculations - Model 35 (Continued)

TIME	x	Y	U	THETA	DENSITY	Q
MICROSEC	INCHES	INCHES	FT/SEC	DEGREES	SLUGS/CUFT	LB/SQFT
849.00	.9636	3.0816	21.5	-158.2	·002865	•66
	1.0580	2.6145			·0u2195	
	1.0816	2.2301			.002309	
	.8968	1.6342	54.3	32.6	.002640	4.64
	.7355	1.3235	19.8	a 45.0	.002640	o 52
	1.2822	3.0914	25.3	161.6	.002775	• 89
	1.3235	2.5998	* 4		.002192	
	1.3235	2.3735			.002449	
_	1.2783	1.8407	53.1	70.2	.002559	3.61
	1.1504	1.4356	22,8	52,1	• 002559	•66
	1.6165	3.1190			.002647	
	1.6067	2.5526			.002472	
	1.6067	2.4110			.302648	
	1.5359	1.9154			•052389	
	1.4258	1,4946			.002388	
	1.9764	3.1013			.002647	3
	1.9469	2.5172			·0u2472	
	1.9292	2.4237			.002648	
	1,8702	1.9548			·0J2388	
	1.9033	1.5221	-		•0u2388	
890.70	•9720	3.0940	153.7	175.6	·002657	31.40
	1.0100	2.6220	89.0	173.7	.002317	9.17
	1.0660	2.2660	98.2	106.3	.002481	11.98
	•9380	1.6930	94.1	28.7	.002795	12,37
	.7440	1.3220	45.9	- 80.1	.002795	2,94
	1.2340	3 . 0980	63.0	175.4	. 903484	6.92
	1.2880	2,6340	50.1	168.7	.003486	4,37
	1.3140	2.4300	45.8	121.0	. 003178	3,34
	1.2520	1.8740	5.6	45.3	•0u3390	• 05
	1.1260	1.4500	13.2	- 63.4	.003380	•29
	1.5160	3.1150	25.5	180.0	005503	1,85
	1.5160	2 . 5530	24.6	151.4	•9u6188	1.88
	1,5120	2.45±0	32.2	142.4	.005166	2,68
	1.4460	1.9160	13.2	-116.6	.004819	•42
	1.3380	1.5140	23.7	- 94.8	•054819	1.35
	1.7020	3.1160	48.2	-168.2	.005503	6.38
	1.6700	2.5340	35.6	173.7	.006188	3.92
	1.6640	2.4360	34.8	-163.6	•0 05 166	3.13
	1.6160	1,9663				
	1.5500	1.5540				•

Table B-1. Front-Upper Grid Calculations - Model 35 (Continued)

TIME	X	Y	U	THETA	DENSTTY	Q
MICROSEC	INCHES	INCHES	FT/SEC	DEGREES	SLUGS/CUFT	LB/SQFT
				17/ /	000040	4.87
932.40	.8102	3.0954	64.2	-174.6	.002363 .002439	4.51
	•9695	2.6293	60.8	117.4	.002240	7.96
	1.0541	2.3245	84.3	76.3	•002240 •002651	9.83
	•9794	1.6794	86.1	4.0 - 73.8	.002651	5.52
	•7434	1.2783	64.5	- 75e 6 -158e 2	.002554	.59
	1.2193	3.0954	21.5	-156e2 -149e0	.002347	.16
	1.2763	2.6096	11.7	77.0	.002319	.82
	1.2999	2.4189	26.7	23.8	.002518	6.94
	1.2822	1.8446	74.3	- 5. 0	.002518	10.72
	1.1563	1.4238	92.3	- 19.7	.002315	1.26
	1.5910	3.1190	29.7 55.0	19.1	.002479	3.75
	1.5851	2.5644		- 4.4	.002474	1.19
	1.5811	2.4307	52.1	26.6	.000543	1.76
	1.5300	1.9036	80.4 85.8	- 12·1	•000543	2.00
	1.4238	1.4710	101.9	- 25.6	.002852	14.81
	1.9292	3.0914	98.4	- 5.8	.002479	12.01
	1.9115	2.5211		- 10.8	.000879	3.21
	1.8958	2.4189	85.4		•000543	2.21
	3,1760	2.0846	90.3 104.4	- 5.1 - 5.5	•000543	2.96
054 10	3.1603	1.7266	43.6	144.2	•002655	2.53
974.10	•8080 •8080	3.0880	105.3	126.7	.002643	14.66
	•9820	2.6760		95.8	.002305	10.80
	1.0860	2.3680	96,8	47•2	•002366	23.80
	1.0240	1.7040	141.8 67.2	- 37.9	• 002366	5.34
	•7620	1.2600	32.2	142.4	•002950	1.53
	1.2140	3.0900		90.0	•002930	9.38
	1.2780	2.6280	80.6 69.8	80•3	•002899	7.03
	1.3200	2.4560		66.3	•002669 •003C10	11.65
	1.3200	1.9040	88.0		•003010	10.49
	1.2180	1.4500	83.5	26.6		•72
	1.5440	3.1060	18.1	- 40.6	.004404	
	1.5680	2.5760	31.5	86.4	•004252	2.11
	1.5640	2.4540	49.5	83.2	.004616	5.65
	1.5180	1.9520	73.1	59 . 3	.003981	10.65
	1.4220	1.4960	77.9	43.0	•0ú3981	12.07
	1.7940	3.0720	33.6	20.6	-004404 004353	2.48
	1,7680	2.5240	50.3	51.3	.004252	5.39
•	1.7480	2.4200	51.9	37.3	.004616	6.21
	1.7060	1.9580	•			
	1.6540	1.5440				

Table B-1. Front-Upper Grid Calculations - Model 35 (Continued)

TIME MICROSEC	X INCHES	Y INCHES	U FT/SEC	THE TA DEGREES	DENSITY SLUGS/CUFT	Q L8/SQFT
			22.0	1/2 /	.002463	1.32
1015.80	.7748	3.1209	32.8	142.4	.002127	6.68
	•9065	2.7139	79.3 72.1	146.3 109.4	.002334	6.06
	1.0442	2.4208 1.7837	134.3	43.2	.002334	20.69
	1.0757 .7965	1.2370	100.1	- 26.1	.002294	11.49
		3.1150	18.1	-173.7	.002698	.44
	1.1937 1.2763	2.6903	41.7	73.3	•002446	2.13
	1.3117	2.4877	41.1	119.1	.002374	2.01
	1.3176	1.9253	48.8	35.0	.002403	2.86
	1.2311	1.4612	48.0	•0	.002403	2.76
	1.6047	3.1072	31.0	14.9	.002843	1.37
	1.5870	2.5359	40.2	95.7	.002360	1.90
	1.5870	2.4798	33.0	104.0	.002539	1.38
	1.5674	1.9666	43.9	30.1	.002468	2.38
	1.4808	1.5241	58.0	2.0	.002468	4.15
	1.9607	3.1032	40.4	98.5	.002843	2.32
	1.9430	2.5605	48.7	70.8	.002360	2.80
	1.9371	2.4503	57.6	56.3	.002539	4.22
	1.8958	1.9961	54.4	36.0	.002468	3.65
	1.8283	5693	45.7	23.2	€002468	2.57
1057.50	.7820	3.1080	71.2	- 24.4	.002579	6.54
20030	.9160	2.7200	12.6	-141.3	.002437	.19
	1.3620	co 4360	32.5	115.0	.002431	1.29
	1.1220	1.7960	115.3	45.7	•002262	15.05
	.8520	1,2160	100.2	- 1.1	•002262	11.36
	1.1960	3.0880	43.1	-120.1	.003027	2.82
	1.2900	2.6680	33.6	~ 96.7	•Qu2763	1.56
	1.3000	2.4920	21.2	111.8	•002752	•62
	1.3600	1.9320	58.9	25.7	•002768	4.80
	1.2660	1.4500	62.4	- 12.7	.002768	5.40
	1.5740	3.1140	25.5	-112.6	•004728	1.54
	1.5640	2.6160	16.8	69.4	•003640	•51
	1.5560	2.4860	6.2	71.6	•004027	.08
	1.5560	1.9740	20.2	29.1	•003950	.81
	1.4800	1.4940	38.6	- 14.7	•003950	2.94
	1.7680	3.1120	18.6	- 71.6	.004728	•82
	1.7840	2.5700	5.9	180.0	•003640	• 06
	1.7800	2.4680	2.0	89.7	•004027	.01
	1.7500	1.9900	20.9	41.2	.003950	• 86
	1.6960	1.5620	11.8	• 0	.003950	•27

Table B-1. Front-Upper Grid Calculations - Model 35 (Continued)

TIME	x	Y	U	THETA	DENSITY	Q
MICROSEC	INCHES	INCHES	FT/SEC	DEGREES	SLUGS/CUFT	LB/SQFT
1099.20	.8397	3.0914	25.6	-128.7	• 0y2852	. 93
	8968	2.7060	54,4	-162.9	.002603	3.85
	1.0305	2.4503	95.9	144.3	•002475	11,39
	1.1563	1.8663	144.9	74.8	.002134	22.42
	.8968	1.2350	106.1	42.7	.002134	12.00
	1.1721	3.0777	67.0	162.6	•002736	6.14
	1.2724	2.6568	58.8	162.2	·002715	4.69
	1.3038	2.5074	58.1	116.6	.002515	4.24
	1.3707	1.9508	76.4	96.0	·0\2537	7.40
	1.2920	1.4474	79.2	47.0	.002537	7.95
	1.5949	3.0836	19.0	-161.6	•002988	• 54
	1.5929	2.6116	31.0	75.1	•0û2327	1.12
	1.5890	2.4857	36.0	70.6	.002520	1.64
	1.5851	1.9764	51.4	76.5	.002543	3.36
	1.5182	1.5143	85.0	60.4	.002543	9.19
	1.9666	3.0855	94.3	- 4.9	.002988	13.27
	1.9371	2.5605	77.1	16.6	.002327	6.92
	1.9371	2.4523	76.9	9.0	.002520	7.45
	1.9115	1.9823	99.2	18.8	.002543	12.52
	1.8407	1.5693	123.3	19.9	.002543	19.32
1149.90	.7660	3.0880	64,4	167.7	•002695	5.58
	.8640	2.7040	36.1	135.0	.002877	1.88
	•9840	2.4920	94.5	136.7	.002589	11.57
	1.1600	1.9360	121.9	88.2	.002133	15.84
	•9300	1.2880	78.3	28.5	.002133	6.53
	1.1320	3.1080	42.5	146.3	.002649	2.44
-	1.2340	2.6860	92.4	128.1	.002680	11.44
	1.2740	2.5440	75.2	123.3	·002548	7.21
	1.3520	2.0080	102.9	83.4	.002668	14.11
	1.3200	1.5080	91.7	45.0	• 002668	11.22
	1.5560	3.1080	43.6	144.2	•003582	3.41
	1.5720	2.6460	52.9	121.3	.002754	3.85
	1.5680	2.5200	59.8	117.4	•0ú3095	5.53
	1.5680	2.0240	78.6	91.4	•002903	8.97
	1.5220	1.5720	72.7	71.1	•002903	7.67
	1.8820	3.1040	20.0	78.7	•003582	• 72
	1.8580	2.5920	41.3	92.7	•002754	2.35
•	1.8560	2.4800	52.9	105.1	•003095	4.33
	1.8440	2.0220	73.4	82.3	•002903	7.81
	1.8120	1.6040	47.3	48.4	•002903	3.25

Table B-1. Front-Upper Grid Calculations - Model 35 (Continued)

TIME	×	Y	U	THETA	DENSITY	Q
MICROSEC	INCHES	INCHES	FT/SEC	DEGREES	SLUGS/CUFT	LB/SQFT
1182.60	•7768	3.1052	130.6	173.9	.003055	26.07
1101400	.8712	2.7316	92.1	152.9	.002755	11.67
	.9617	2.5152	93.8	153.4	.002471	10.88
	1.1603	1.9892	86.6	108.9	.001793	6.72
	.9656	1.2724	69.8	- 13.2	.001793	4.37
	1.1367	3.1013	50.9	-168.7	·0ú2859	3.71
	1.2153	2.7296	80.9	140.0	.002552	8.34
	1.2625	2.5703	48.3	172.9	.002702	3.16
	1.3825	2.0531	73.3	107.4	·0u2711	7.29
	1,3564	1,5123	50.9	41.8	.002711	3.52
	1.5595	3.1091	62.8	170.8	.002857	5.63
	1.5654	2.6568	36.8	167.5	.002366	1.61
	1.5615	2.5388	50.9	131.8	·0u2557	3.32
	1.5831	2.0551	58.3	95.9	.002315	3.93
	1.5418	1.5831	40.5	57.1	·0u2315	1.89
	1.9705	3.1052	8.9	153.4	.002857	•11
	1.9351	2.6018	25.0	61.4	•002366	• 74
	1.9233	2.5034	43.1	76.6	.002557	2.38
	1.9213	2.0551	31.3	63.4	.002315	1.13
	1.8722	1.6047	40.8	78.7	.002315	1.92
1224.30	•6360	3.1020	190.9	177.0	•002686	48.92
	•7820	2.7460	148.0	174.7	.002390	26.18
	•9000	2.5340	124.4	158.7	• 302859	20.58
	1.1320	2.0130	100.7	128.7	·001855	9.39
	•9980	1.2720	24.C	- 55.0	.001855	•53
	1.0820	3.0980	76.3	-168.1	-002861	8.33
	1.1720	2.7380	64.0	-162.1	.002396	4.91
	1.2260	2.5500	92.9	173.9	.002609	11.25
	1.3300	2.0780	101.4	135.8	.002466	12.69
	1.3580	1.5420	73.7	80.8	• 0ú2466	6.69
	1.4943	3.1180	106.0	169.3	.003133	17.50
	1.5360	2.6540	82.6	178.6	•003006	10.74
	1.5340	2.5540	86.3	149.9	•002806 002822	10.45
	1.5620	2.0820	71.4	148.5	.002822	7.20
	1.5440	1.6060	53.1	90.0	.002822	3.97 7.00
	1.8740	3.1080	71.4	172.1	.003133	7.99
	1.8700	2.6140	69.0	175•1 163•3	• 003006	7.16 5.31
	1.8660	2.5220	61.5 50.7		.002806 .002822	
	1.8580 1.8200	2.0500 1.6440	597 448	162 ₀ 8 127•9	•002822	5.02 2.83
	1.0200	100440	7740	14107	• 002022	C • 03

Table B-1. Front-Upper Grid Calculations - Model 35 (Continued)

TIME	×	Y	U	THETA	DENSITY	Q
MICROSEC	INCHES	INCHES	FT/SEC	DEGREES	SLUGS/CLFT	LB/SQFT
1266.00	•5860	3.1150	51.9	-164.4	.002421	3.26
	.7237	2.7453	98.7	-173.0	.002921	14.21
	.8456	2,5605	93.9	-178.8	.002675	11.81
	1.0973	2.0669	74.8	124.1	·001595	4.46
	•9794	1.2527	38.G	• 0	.001595	1.15
	1.0619	3.0855	97.9	-178.8	.002962	14.21
	1.1544	2.7099	97.5	-164.5	•003386	16.08
	1.1701	2.5801	99.5	157.6	.002705	13.38
	1.3097	2.1239	55.3	130.6	•0ÿ2714	4.15
	1.3687	1.5851	32.8	52.4	.002714	1.46
	1.4553	3.1288	38.2	-132.9	. 902640	1.92
	1.4828	2.6588	52.8	-170 s	.003047	6.00
	1.4867	2.5821	71.7	-167.1	.002479	6.38
	1.5221	2.0924	25.4	135.0	•002482	. 80
	1.5418	1.6362	17.2	35.5	.002482	•37
	1.8997	3.1150	30.5	-121.6	.002640	1.23
	1.8663	2.6077	32.3	-111:8	.003047	1.59
	1.8643	2.5211	27.2	-107.1	.002477	•92
	1.8643	2.0728	20-0	90.0	•002482	,50
	1.8446	1.6401	28.0	- 4.1	•002482	•98
1307.70	•5860	3.0880	40.1	-101.3	.002750	2.21
	.6840	2.7340	97.7	-164.8	002849	13.60
	.8060	2.5320	108-1	180.0	.002715	15.85
	1.0900	2.0800	78.3	128.9	.001676	5.13
	1.0360	1.2720	75.3	- 15.1	.001676	4.75
	•9840	3.0960	79.8	-170.1	•0ü2497	7.95
	1.0780	2.7120	92.7	175.1	.002819	12.11
	1.1340	2.5880	87.0	173.5	€002617	9.91
	1.2940	2.1200	62.9	165.5	.002332	4.6.
	1.3780	1.5680	61.4	7.4	.002332	4.40
	1.4680	3.0900	47.9	-109.2	.002927	3.35
	1.4740	2.6440	36.7	-164.5	.002538	1.71
	1.4640	2.5420	43.1	-149.9	•002739	2.55
	1.5440	2.1000	13.9	45.0	•002583	• 25
	1.5580	1.6160	37.5	- 47.1	.902583	1.82
	1.8580	3.0820	59.4	-124.2	·002927	5.16
	1.8580	2.5840	17.8	- 96.3	·002538	≠ 40
	1.6580	2.4960	42.3	-111.8	.002739	2.45
	1.8580	2,0700	20.5	- 73.3	•0ú2583	•54
•	1.8480	1.6420	29.9	- 66.8	.002583	1.16

Table B-1. Front-Upper Grid Calculations - Model 35 (Continued)

				THETA	DENSITY	Q
TIME	Y.	Y	U	DEGREES	SLUGS/CUFT	LB/SQFT
MICROSEC	INCHES	INCHES	FT/SEC	DEGRECS	360001.40.	
	e won	3.0757	91.0	-171.2	.002694	11.16
1349.40	.5782	2.7198	106.1	-176.8	.003027	17.03
	.6293	2.5635	113.4	165.7	.002875	18.49
	.7375	2.1278	187.3	146.3	.001399	24.54
	1.0482	1.2330	28.0	- 56.3	.001399	•58
	1.7521		59.0	-156.0	.002740	4.78
	.9833	3.0718	62.0	159.2	.002795	5.37
	1.0619	2.7178	95.4	160.4	.002338	10.65
	1.0836	2.5900	101.5	143.8	.002413	12,43
	1.2488	2.1396	DEADINGS	INVALID	• • • • •	
	1.4297	1.5929	17.2	-169.6	.002784	8.30
	1.4395	3,0836	86.1	158.2	.0v2326	8.62
	1.4474	2,6490	79.9	148.3	.002601	8,30
	1.4494	2.5605	51.2	128.7	.002432	3,19
	1.5320	2.1023	44.C	87.4	.002432	2.36
	1.5674	1.6087	16.1	7.1	.002784	•36
	1.4663	3.0659	54.9	146.9	.002328	3.50
	1.8643	2.5900	46.C	145.6	.002601	2.75
	1.8486	2.4818	32.2	119.7	.002432	1.26
	1.8702	2.0531	11.7	121.0	.002432	.17
	1.8564	1.6126	82.1	159.0	.002667	8.99
1391.10	.4960	3.0740		163.4	.002962	8.52
	.5780	2.7280	75.8	156.8	.002707	4.85
	.6960	2.5600	59.9	137.8	READINGS	INVALID
	.9340	2.1840	172.5 37.1	58.0	READINGS	_
	1.0520	1.2480		155.4	.002950	3.97
	•9300	3.0720	51.9	140.4	.003044	8.33
	1.0209	2.7340	74.0	137.3	.002415	5.84
	1.3440	2.6200	69.5	119.6	READINGS	
	1.2120	2.1830	151.4	_	MEMD 11100	- ,, -
	NO READ	ING	READING	132.3	.002718	4,64
	1.3920	3.0760	58.4	119.9	.002458	6.88
	1.3940	2.6760	74.8	122.6	.002604	4.43
	1.3960	2.5849	58.3	98.1	.002521	11.93
	1.5120	2.1400	97.3	58.2	.002521	14.12
	1.5600	1.6600	105.8		.0ú2718	1.31
	1.8740	3.3840	31.1	108.4 315.6	.002458	3.08
	1.8120	2.6140	50.1	97.5	.002604	7.39
	1.8200	2.5220	75.3	99.2	.002521	6.84
	1.8420	2.0990	73.7	82.9	.002521	7,91
	1.8420	1.6520	79.2	54.7	• 446761	,,,,,

Table B-1. Front-Upper Grid Calculations - Model 35 (Continued)

YIME	X	Y	U	THETA	DENSITY	Q
Microsec	INCHES	INCHES	FT/SEC	DEGREES	SLUGS/CUF1	LB/SQFT
1432.80	•5015	3.1052	98.0	177.7	•002611	12.54
• • • • • • • • • • • • • • • • • • • •	•5565	2.7414	68.8	-144.5	.002872	6.79
	.6824	2,5841	50.6	-161.6	.003162	4.04
	•9204	2.2439	44.9	147.7	READINGS	INVALID
	1.0718	1.2645	40.5	- 20.2	READINGS	INVALID
	•9361	3.0934	40.2	153.4	·002807	2.27
	1.0049	2.7650	42.0	154.7	.002478	2.19
	1.0324	2.6372	39.4	156.0	.002469	1.91
	1,1740	2.2714	83.4	134.0	READINGS	INVALID
	NO READI	NG	READINGS	INVALID		
	1,4002	3,1268	46.0	180.0	.002752	2.91
	1.4100	2.7139	26.8	116.6	.002428	.87
	1.4179	2.6095	18.9	122.0	002665	•47
	1.5182	2.1986	40.5	110.2	·0u2601	2.13
	1.6067	1.7070	49.8	35.0	.002601	3.10
	1.8564	3.0954	76°0	177.0	•002752	7,96
	1.8427	2.6352	19.0	18.4	.002428	. 44
	1.8387	2.5565	22.1	95.2	•002665	• 65
•	1.8584	2.1259	8.2	14.0	.002601	• 09
	1.3663	1.6912	29.5	61.7	·0u2601	1.13
1474.50	.3980	3.0780	29.5	176.2	·002247	• 98
	•5220	2.6880	68•2	- 78.4	J 002903	6.75
	•6480	2.5440	71.2	-118.0	.002882	7.31
	.8960	2.2080	95.3	-171.7	READINGS	
	1.0900	1.2340	140.2	31.2	READINGS	INVALID
	.8940	3.0900	10.0	78.7	•003008	• 15
	•9820	2.7520	39.2	- 55.5	.002707	1.97
	1.0080	2.6360	14.2	-123.7	.002370	.24
	1.1540	2.2400	20.2	150.9	READINGS	INVALID
	NO READ!					
	1.3460	3.0760	36.7	- 74.5	.002831	1.91
	1.3820	2.7000	8.1	- 76.0	.002422	• 08
	1.3860	2.6000	13.9	- 98.1	.002527	•24
	1.4980	2.1780	24.3	76.0	•002611	.77
	1.6000	1.6880	52.0	10.9	.002611	3.53
	1.7980	3.0880	40.1	-168.7	.002831	2.27
	1.8300	2,6200	35.9	9.5	.002422	1.56
٠	1.8180	2.5440	31.7	- 21.8	.002527	1.27
	1.4500	2.1000	41.7	8.1	•002611	2.27
	1.8560	1.6780	46.7	14.6	•002611	2.85

Table B-1. Front-Upper Grid Calculations - Model 35 (Continued)

TIME	x	Y	U	THETA	DENSITY	Ų
MICROSEC	INCHES	INCHES	FT/SEC	DEGREES	SLUGS/CUFT	LB/SQFT
1516.20	•4720	3.1072	30.0	- 3.8	·0u2132	• 96
	•5703	2.6745	65.1	-132.5	.002989	6.33
	.6490	2.5211	117.5	-131.6	.002~10	20.09
	.8260	2.2301	167.9	-179,3	REAUINGS	INVALID
	1.1917	1.3373	READINGS			
	•9381	3.1032		172.4	•002803	1.28
	1.0265	2.7335		172.9	. 0u2b42	5.49
	1.0246	2.6254	57.3	-150.8	•0ū2558	4.19
	1.1563	2.2812	58.1	176.1	READINGS	INVALID
	NO READI	NG	READINGS			
	1.4100	3.0914	25•0	151.4	•002960	•93
	1.4120	2.7060	59.2	-168.3	•0u1985	3.48
	1.4159	2.5959	50.0	180.G	•002640	3.29
	1.5241	2.2222	31.6	124.7	.002485	1.24
	1.6578	1.7168	34.4	54.5	.002485	1.47
	1.8171	3.0875	11.7	-149.0	.002960	-20
	1.8781	2.6411	6.0	180.0	.001985	• 04
	1.8682	2,5447	7.2	33.7	.002640	.07
	1.8997	2.1318	16.1	29.7	. 002485	•32.
	1.9115	1.7030	18.1	6.3	.002485	•41
1557.90	. 4280	3.0760	31.7	-172.9	•0u2323	1.17
	.4780	2.6400	73.9	-151.4	.002189	5.97
	•5700	2.4560	72.3	-157.6	.002776	7.24
	•7280	2.2060	137.9	-147.2	READINGS	INVALID
	NO READI	NG	READINGS	INVALID		
	. 8640	3.0940	72.1	169.0	.002859	7.42
	•9180	2.7600	89.6	154.0	0ú2434	9.78
	•9580	2.6080	71.5	159.1	•002369	6.06
	1.0960	2.2440	115.0	146.9	•0u0835	5.52
	1.1640	1.3280	READINGS	INVALID		
	1.3240	3.0830	43.1	155.8	002580	2.40
	1.3240	2.6880	50.1	131.8	·002412	3.03
	1.3360	2.6000	54.5	115.6	.002375	3.53
	1.4800	2,2040	63.5	111.8	.002520	5.08
	1.6200	1.7169	65.3	83.1	.002520	5.38
	1.7880	3.0820	105-3	8.6	.002580	14.31
	1.8240	2.6200	42	135.0	.002412	2.69
	1.8240	2.5480	41.5	121.4	.002375	2.04
	1.8640	2.1080	43.4	84.8	.002520	2.37
	1.8740	1.6800	39.5	84.3	•0u2520	1.97

Table B-1. Front-Upper Grid Calculations - Model 35 (Continued)

				THETA	DENSITY	Q
TIME	X	Y	U	THETA	SLUGS/CUFT	LB/SQFT
MICROSEC	INCHES	INCHES	FT/SEC	DEGREES	35003700: 1	
		- 1022	37.9	108.4	.002216	1.59
1599.60	.4405	3.1032	4.5	116.6	.092818	•03
	•5054	2.6391	30.5	-121.6	.002637	1.23
	.5821	2.4936	75.3	-169.3	READINGS	INVALID
	.7099	2.1554	READINGS			
	NO READI	VG		-172.9	.002730	• 35
	.8673	3.1170	16.1	- 36.9	.002355	•47
	.9459	2.7729	20•0 22•8	105.3	.002340	.61
	.9577	2.6509		135.0	READ! NGS	INVALID
	1.0600	2.3441	107.4	13360	***************************************	
	NO READI	NG	12.0	90.0	.002629	.19
-	1.3707	3.1091	12.0	65.2	.002155	3.53
	1.3786	2.7434	57.2	78.7	.002641	4,94
	1.3923	2.6450	61.1	88.6	.002441	8.60
	1.5005	2.2812	84.0	71.2	.002441	15.27
	1.6657	1.7817	111.9	22.4	.002629	1.77
	1.9213	3.1032	36.7		.002155	2.08
	1.8446	2.6745	44.0	90.0 82.2	.002641	2.60
	1.8466	2.5801	44.4	57 . 7	.002441	6.15
	1.9036	2.1750	71.0		.002441	15.74
	1.9154	1.7424	113.6	61.6	.002177	13.47
1641.30	.4160 ·	3.1120	111.2	-162.5	.002195	7.14
	.4760	2.6440	80.7	-177.2	.003049	13.48
	•5540	2.4300	94.0	-169.2	READINGS	
	. 6540	2.1920	144.8	161.8	VENDINOS	
	NO READING			S INVALID	.002881	8.07
	.8480	3.0920	74.8	-150.1	.002785	6.41
	.9340	2.7480	67.8	-170.0	.002291	3.47
	•9520	2.6300	55.0	180.0	.000761	3,22
•	1.0200	2.3200	92.0	160.0	*000101	
	1.2220	1.4120	READING	S INVALID	.002778	2.39
	1.3240	3.1000	41.5	-148.6	.002610	2.52
	1.3480	2.7400	43.9	169.7	.002454	4.10
	1.3480	2.6600	57.8	162.2	.002547	2.85
	1.4820	2.2880	47.3	131.6	.002547	.73
	1.6560	1.8220	23.9	99.5	.002778	6.66
	1.8220	3.0960	69.2	-145.4	.002610	•50
	1.8240	2.6640	19.6	180.0	.002454	1.05
•	1.8300	2.5920	29.2	137.7	.002547	2.70
	1.9020	2.1680	46.0	129.8	.00254?	1.99
	1.9280	1.7800	39.5	84.3	• 00234 :	24 //

Table B-1. Front Upper Grid Calculations - Model 35 (Continued)

TIME	X	Y	U	THETA	DENSITY	Q
MICROSEC	INCHES	INCHES	FT/SEC	DEGREES	SLUGS/CUFT	
1402.00	3343	3 24 10	37.0			
1683.00	•3343 4243	3.0698	33.0	-104.0	•0u2230	1.21
	•4248 4407	2.6352	72.6	- 97.9	• 002642	6.97
	•4897 •5723	2.4759	63.8	-122.2	•002877	5.85
		2.2036	14.4	146.3	READINGS	INVALID
	NO READI		READINGS		44000	
	.8024	3.0776	27.8	- 69.0	.002787	1.08
	.8791	2.7611	28.3	171.9	.002530	1.01
	.9027	2.6509	44.0	2.6	•002356	2.28
	.9735	2.3756	16-1	97.1	.000717	• 09
	1.2350	1.4513	152.2	66.8	•000717	8 . 3 û
	1.3353	3.0875	28.8	- 33.7	.002876	1.14
	1.3353	2.7512	17.9	- 26.6	.002372	• 38
	1.3373	2.6627	32.2	- 7.1	• 002662	1.38
	1.4690	2.3166	22.8	74.7	•002403	•62
	1.6618	1.8053	READINGS		_	
	1.9643	3.0639	31.0	-165.1	。0Ú2876	1.38
	1.8250	2.6745	20.0	53.1	• Cu2372	.47
	1.8250	2.5998	40.8	11.3	.002662	2.21
	1.3741	2.2104	44.9	32.3	•002403	2.42
	1.9194	1.7817	32 • .2	29.7	002403	1.25
1724.70	.4080	3.0800	36.1	112.4	•0u2136	1.39
	.4660	2.5720	65.7	-141.1	·0u1952	4.21
	•5200	2.3760	126.9	-106.2	.003150	25.35
	•6420	2.2030	56.7	-146.3	READINGS	INVALID
	NO READI	NG	READINGS	INVALID		
	• 3580	3.0669	107.7	165.2	.002860	16.59
	•3060	2.7520	159.3	177.9	.002706	34.33
	.7960	2.6320	169.1	178.0	.002444	34.95
	1.9180	2,3360	232.9	-174.7	READINGS	INVALID
	1.2820	1.5520	196.3	138.7	READINGS	INVALID
	1.3489	3.0840	209.9	173.0	.003083	67.87
	1.3640	2.7320	184.9	177.6	.(32611	44.63
	1.3800	2.6560	187.0	176.4	.002454	42.92
	1.4880	2.3100	180.4	168.7	READINGS	INVALID
	NO READ!	NG				
	1.7920	3.0880	200.2	166.4	.003083	61.76
	1.8360	2.6800	167.2	177.3	.002611	36.50
	1.8700	2.6000	152.8	171.9	.002454	28.66
	1.9400	2.1920	145.5	163.5	READINGS	
	1.4560	1.7960	142.2	168.8	READINGS	
				-		

Table B-II. Front-Lower Grid Calculations - Model 35

			4.5	THETA	DENSITY	Q
TIME	X	۲	U	DEGREES	SLUGS/CUFT	LB/SQFT
MICROSEC	INCHES	INCHES	FT/SEC	DEGREES	32003700	
		. 2016	8.9	- 63.4	.002117	.08
41.00	•6868	1.2644	12.6	- 71,6	.902525	.20
	•6693	-8800 5340	24.4	55.0	.002032	•60
	•6322	•5268	25.0	28.6	.001760	•55
	.6088	.1795		- 83.7	.001760	.29
	•5932	.0137	18.1	15.3	.002119	,55
	1.2059	1.2644	22.8 50.0	- 87.7	.002184	2.73
	1.1805	.9249		- 12.5	.002224	1.51
	1.0985	.5190	36.8 27.8	- 69.0	.002569	•99
	1.0751	.1990		- 9.5	.002569	1.71
_	1.1024	.0273	36.5	- 23.2	.002761	•32
	1.4829	1.2605	15.2	- 33.7	.002620	.61
	1.4673	.9327	21.6	- 24.2	.002704	2.60
	1.4361	•5249	43.8	11.3	.002437	3.16
	1.3873	.2263	50.9	- 10.8	.092437	2.22
	1.3717	.0078	42.7	- 54.5	.002761	.41
	1.7834	1.2722	17.2	-126.9	.002620	•52
	1.7600	₃ 9307	20.0	- 24.8	.002704	1.11
	1.7444	.5307	28.6		.002437	.43
	1.7151	.2849	18.8	- 32.0 - 70.0	.002437	.67
	1.7054	.0156	23.4		.002100	1.05
82.50	.7204	1.2517	31.6	- 60.3 - 40.4	.002468	•40
	.7085	.8796	18.1	- 49.4 - 90.5	.002190	2.49
	.6965	.5075	47.7	- 80.5 - 99.5	.002184	1.40
	.6806	-1692	35.7	- 31.0	.002184	.14
	.5607	•0020	11.4	- 77 . 9	.002095	3.30
	1.2478	1.2557	56.1	- 58.7	.002360	3.28
	1.2179	.9035	52.7	- 30.3	.002226	3.30
	1.1582	.4975	54.4		.002195	2.44
•	1.0856	.1731	47.2	- 4.8 -125.5	.002195	1.25
	1.0786	.0179	33.7	- 57.7	.002420	2.35
	1.5164	1,,2557	44.0	- 76.0	.002477	2.02
	1.4945	.9095	40.4	-101.9	.002631	1.90
	1.464?	.5114	38.0	- 81.9	.002387	• 92
	1.4567	.2368	27.7	18.4	.002387	.18
	1.4169	.0119	12.4			4.35
	1.8448	1.2756	60-0	-128.4	.002420	2.00
	1.8030	.9095	40.2	-137.0	.002477	4.08
	1.3030	.5114	55.7	-129.3	.002631	1,94
	1,7891	.2607	40.3	-119.1	.002387	2.18
	1,7731	.0080	42.8	-164.1	.002387	2010

Table B-II. Front-Lower Grid Calculations - Model 35 (Continued)

_	•	v	U	THETA	DENSITY	Q
TIME	X	Y	FT/SEC	DEGREES	SLUGS/CUFT	LB/SOFT
MICROSEC	INCHES	INCHES	11750	000		
	****	. 2271	26.7	-103.0	.002157	•77
124.00	.7024	1.2371	42.0	180.0	.002337	2.06
	.6810	•8663 4900	47.0	-167.7	.001962	2.17
	.6400	. 4800	+2.3	-160.7	.0017/0	1.58
	-6929	.1444	64.0	-178.2	.001760	3.60
	•6029	.0078	55.0	-160.9	.002172	3.28
	1.2176	1.2098	40.0	180.0	.002529	2.02
	1.2078	.8800	66.4	-173.1	.002748	6.06
	1.1454	.4917 .1951	49.0	168.2	.002685	3.22
	1.1220		50.0	-163.7	"J02685	3.35
	1.0829	.0000	17.1	-159.4	.003409	•50
	1.5063	1.2234	36.7	-157.6	.002900	1.96
	1.4771	.8937	54.9	~169.5	.003017	4.54
	1.4283	.4878	65.3	-156.6	.003106	6.63
	1.3912	.1990	40.8	-168.7	.003106	2.58
	1.3834	.0117 1.2254	26.3	171.3	.003409	1.18
	1.7463	.9034	2.0	- 89.7	2002900	.01
	1.7307	•4878	42.4	-171.9	.003017	2.71
	1.7093	• 2448	38.0	177.0	.003106	2.24
	1.6956	.0039	26.0	180.0	.003106	1.05
	1.6644	1.2259	60.4	- 54.2	.0ú2339	4,26
165.5C	.7144	•8796	56.9	- 49.2	.002460	3.99
	.6667	.4975	78.4	- 1.4	.002319	7.12
	.6507	1552	96.1	- 11.8	.002094	9.66
	.6408	.0000	57.7	9.8	•002094	3.48
	.5970	1.2378	36.0	- 45.0	.001973	1.28
	1.1960	9035	12.4	- 71.6	.002273	•17
	1.1781	4896	39.2	- 90.0	•002214	1.70
	1.0925	.1831	65.2	-138.7	.002157	4.59
	1.0408	.0040	42.1	152.2	.002157	1.91
	1.0308	1.2498	35.0	- 26.6	.002293	1.41
	1.5005	8955	36.0	- 60.6	.002319	1.50
	1.4607	5015	19.6	- 90.0	.002472	•47
	1.4129	.2109	25.5	•0	.002348	• 76
	1.3970	.0040	26.6	- 17.1	.002348	.83
	1.3771	1.2796	73.8	10.7	.002293	6.24
	1.8189	9075	55.2	- 27.5	.002319	3.53
	1.8030	.5055	42.4	33.7	.002472	2.22
	1.7612	.2627	42.8	- 15.9	.002348	2.15
	1.7512	.0080	77.5	20.7	.002348	7.05
	1.7473	40000	•			

Table B-II. Front-Lower Grid Calculations - Model 35 (Continued)

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TIME	X	Y	ប	THETA	DENSITY	Ç
MICROSEC	INCHES	INCHES	FT/SEC	DEGREES	SLUGS/CUFT	LB/SQFT
						65,04.
207.00	.7376	1.1883	35.6	- 51.8	.002322	1.47
	.7180	.8234	50.4	- 33.7	.002662	5639
	.7180	.4780	54.5	- 61.6	.002405	3.58
	•6966	.1249	20.0	- 53.1	.003202	.64
	•6595	.0176	48.0	• 0	•003202	3.68
	1.2429	1.1844	96.7	- 29.7	.002094	9.78
	1.2117	.8683	64.3	- 25.6	.002421	5.01
	1.1454	.4527	44.0	•0	*002526	2.44
	1.0732	.1522	22.8	15.3	•002531	•66
	1.0459	.0195	12.6	108.4	.002531	.20
	1.5376	1.2078	48.1	- 41.6	•002765	3.20
	1.4946	• 8624	43.0	- 21.8	.002817	2.61
	1.4283	e4683	40.8	11.3	.002687	2.23
	1.4166	.1990	24.3	9.5	.003010	.89
	1.4088	•0039	41.6	35.2	.C03010	2.60
	1.8185	1.2390	64.0	- 51.3	.002766	5,66
	1.7795	.8780	29.1	- 15.9	.002817	1.19
	1.7544	-5112	43.6	15.9	.002687	2.56
	1.7366	•2380	28.0	4.1	.003010	1.18
349 60	1.7366	.0312	33.5	17.4	.003010	1.69
248.50	•7363	1.1980	34.3	- 59.0	•002230	1,31
	.7085	.8517	5.5	135.0	.002420	• 04
	•6766	•4498	39.7	-122.9	.002418	1.90
	.6527	•1393	54.6	-159.0	.002372	3.53
	.6448	.0000	37.3	177.0	•002372	1.65
	1.2796	1.1900	56.1	60.8	•002360	3.72
	1.2358 1.1363	.8756	31.3	•0	•002538	1.25
	1.0627	•4896 1801	14.3	15.9	•002240	•23
	1.0269	£1891	23.6	41.6	•032195	•61
	1.5363	.0159 1.2179	38.6	24.0	.002195	1.63
	1.5005	.8796	17.7	- 6.3	.002521	•40
	1.4527	•5095	48.2 65.2	63.4	•002494	2.90
	1.4209	•2149	36.8	41.3	.002400	5.11
	1.4109	,0279	47.4	25.2 51.7	.002486	1.68
	1.858?	1.2299	60.8		.002486	2.80
	1.8308	.8995	75.6	1.8	.002521	4.65
	1.6030	.5174	85.3	31.2 - 9.2	-002494	7.13
•	1.7791	.2647	82.7	13.7	•002400 •002486	8.74
	1.7791	.0179	64.8	3.5		٤. 49
			9780	3.7	.002485	5.21

Table B-II. Front-Lower Grid Calculations - Model 35 (Continued)

Model 35, Shot 332

		v	υ	THETA	DENSITY	Q
TIME	X	Y	FT/SEC	DEGREES	SLUGS/CUFT	LB/SQFT
MICROSEC	INCHES	INCHES	11750			
		1.400	60.5	- 82.4	.002190	4.00
290.00	.7551	1.1590	52.1	- 85.6	.0u2382	3.23
	.7141	.8273	4.5	63.4	.002251	• 02
	•6966	.4449	20.0	36.9	.QU2978	•59
	.6459	.1054	17,0	18.4	.002978	•53
	.6224	.0195	28.6	~ 77.9	.002151	•83
	1.2702	1.2332	40.2	- 84.3	.0U2378	1.92
	1.2429	.8683	37.9	- 71.6	.002298	1.65
	1.1590	.4566	38.6	- 21.3	.002672	1.99
	1.0907	.1678	50.6	9.1	.002672	3.42
	1.0810	.0351	41.6	- 35.2	.002714	2.35
	1,5551	1.2059	40.0	- 53.1	.002301	1.84
	1.5161	.9054	44.4	- 54.2	.002402	2.36
	1.4771	.5112	16.5	- 14.0	.002716	.37
	1.4498	.2146	26.9	- 48.0	.002716	• 98
	1.4380	.0410	33.3	- 32.7	.002714	1.50
	1.8790	1.2410	46.6	- 59.0	.002301	2.50
	1.8439	.9171	36.0	- 90.0	.002402	1.55
	1.8283	.4976	36.0	- 70.6	.002716	1.76
	1.8166	.2576	11.7	31.0	.002716	.18
	1.8010	.0351	45.6	- 64.5	·002232	2.32
331.50	.7443	1.1383	57.7	- 80.2	.002581	4.29
	.7124	.8000	40.4	- 67.2	.002424	1.98
	.6786	.4537	47.4	29.7	.002330	2.62
	.6687	.1512	44.8	- 23.2	2002330	2.33
	-6627	.0060	83.7	- 73.7	.002104	7.37
	1.2856	1.1622 .8358	69.0	- 87.7	.002401	2.88
	1.2398	• 4537	25.5	22.6	.002489	.81
	1.1483	1751	36.6	- 15.5	.002390	1.60
	1.0985	.1751 .0239	32.4	- 25.0	.002390	1.26
	1.0766	1.1940	53.8	- 56.9	.002436	2.53
	1.5701	.8478	45.6	- 64.5	.002592	2.69
	1.5244	.4736	44.0	- 57.7	.002660	2.58
	1.4786	. 2109	32.1	- 52.4	.002674	1.38
	1.4368		48.5	- 43.4	.002674	3.15
	1.4289	.0080 1.2119	41.9	- 37.5	.002436	2.14
	1.8866	.8597	38.8	- 45.0	.002592	1.95
	1.8547	.4816	18.5	- 58.0	.002660	•45
	1.8030		18.5	- 32.0	.002674	•46
	1.7910	.2398	31.0	- 34.7	.002674	1.28
	1.7891	.0239	2140	2.4.	-	

Table B-II. Front-Lower Grid Calculations - Model 35 (Continued)

TIME	X	Y	U	THETA	DENSITY	Q
MICROSEC	INCHES	INCHES	FT/SEC	DEGREES	SLUGS/CUFT	LB/SQFT
		11101120		DEGREES	3200370511	20, 34. 1
373.00	.7746	1.1180	56.5	- 45.0	.002250	3.59
	.7239	.7707	37.5	- 25.2	.002654	1.87
	.7122	.4078	76.0	- 63.4	.002398	6.92
	.6868	•128 ⁸	52.1	- 94.4	.0025C7	3.40
	.6634	•0020	22.0	180.0	.002507	•61
	1.2937	1.1532	55.5	- 30.3	•002206	3.40
	1.2449	.8195	42.8	- 52.6	.002472	2.26
	1.1824	•4663	39.4	- 30.5	.002284	1.77
	1.1259	•1580	36.8	- 49.4	~002598	1.76
	1.1102	•0215	38.4	- 38.7	•002598	1.91
	1.5844	1.1610	60.0	- 60.0	•002699	4.85
	1,5356	.8644	36.0	- 19.4	.002377	1.54
	1.5005	.4741	25.3	- 18.4	•002555	•82
	1.4693	.1893	43.8	- 65.8	.002655	2.55
	1.4732	.0078	13.4	- 26.6	•002655	•24
	1.9122	1.2156	55.6	- 37.7	•002699	4.16
	1.8712	.8898	52.1	- 32.5	•002377	3.23
	1.8380	•4820	48.0	•0	•002555	2.94
	1.8322	•2478	38.8	- 11.9	.002655	2.00
	1.8263	.0176	44.9	- 20.9	•002655	2.68
414.50	.7841	1.0985	49.9	- 41.8	.002298	2.87
	•7463	.7841	43.3	- 5.2	.002483	2.33
	.7124	.3861	16.9	- 54.5	.002424	• 34
	.6647	•0995	53.8	- 79.5	•002629	3.80
	•6408	.0060	28.9	28.3	•002629	1.10
	1.3333	1.1343	85.5	- 20.1	•002261	8.27
	1.2657 1.1821	•8020 •4338	70.6	- 19.4	.002495	6.22
	1.1224	.1473	49。9 56•8	- 41.8	.002380	2.97
	1.1065	.0000	27.8	- 46.4	.002775	4.48
	1.6000	1.1423	60.5	- 39.3 - 24.9	.002775	1.08
	1.5582	.8358	67.9	- 33 _• 2	.002515	4.60
	1.5025	.4657	65.1	- 43.8	•002570 •002336	5.93
	1.4547	.1711	50.1	- 30.6	•002538	4.95
	1.4408	•0020	39.2	• 6	•002672	3.35
	1.9303	1.1781	164.2	- 70.5	•002515	2.05
	1.8985	.8318	82.3	- 38.2	•002515	33.90 8.70
•	1.8507	.4816	61.5	- 30.7	.002336	4.42
	1.8289	.2229	52.6	- 45.0	.002536	3.70
	1.8308	.0080	25.5	- 22.6	.002672	•87
	-0,500			2240	- 402012	• 01

Table B-II. Front-Lower Grid Calculations - Model 35 (Continued)

TIME MICROSEC	X INCHES	Y INCHES	U FT/SEC	THETA DEGREES	DENSITY SLUGS/CUFT	Q LB/SQFT
MICKUSEC	1 MCUE 2	INCHES	FITSEC	DEGKE C 2	2500270051	CBYSUFI
456.00	.8117	1.0849	20.1	5.7	.002227	.45
43000	•7668	• 7668	10.2	11.3	•002221 •002460	.13
	.7220	.3941	34.9	76.8	•002085	1.27
	.6966	.0761	54.9	33.1	.003695	5.56
	.6888	.0156	38.2	- 6.0	.003695	2.69
	1.3737	1.1239	8.0	• 0	·0u2325	.07
	1.3112	.7961	51.2	38.7	.002407	3.15
	1.2195	•4332	15.6	39.8	.002285	•28
	1.1649	.1171	41.0	47.0	.003002	2.52
	1.1317	.0039	41.2	39.1	.003002	2.55
	1.6390	1-1356	44.0	50.5	.003033	2.94
	1.5922	.8273	16.1	29.7	.002367	• 31
	1.5473	.4293	11.7	- 31.0	.002635	.18
	1.5122	•1639	35.4	16.4	.003148	1.97
	1.5122	.0078	35.3	47.3	.003148	1.97
	1.9668	1.0615	41.2	50.9	.003033	2.57
	1.9356	.8390	35.7	63.4	.002367	1,51
	1.8907	.4507	24.7	- 14.0	-0 02635	•80
	1.8693	.2107	27.2	36.0	.003148	1.16
	1.8498	.0078	18.8	58.0	.003148	• 56
497.50	.8040	1.1005	59.7	-113.2	. 002382	4.24
	.7562	.7861	57.7	- 99.8	.002441	4.06
	.7204	.4199	41.2	-115.3	.002501	2.12
	.7104	.1294	44, 4	-138.6	•002345	2.31
	•6786	•0020	52.2	124.3	.002345	3.19
	1.3413	1.1343	36.1	-167.5	.002308	1.51
	1.3055	.8338	40.9	-163.3	.002466	2.06
	1.1940	•4438	40.8	-125.2	.002490	2.07
	1.1502	.1771	47.2	-175.2	.002885	3.21
	1.1383	.0259	43.1	180.0	.002885	2.68
	1.6279	1.1761	36.4	-126.3	,002434	1.62
	1.5721	.8438	45.9	-129.8	.002353	2.48
	1.5124	.4597	65.8	-143.5	.002495	5.41
	1.4886	.1811	48.5	-133.4	.002897	3.41
	1.4647	.0279	20.0	168.7	•002897	•58
	1,9562	1.2100	90.6	111.6	.002434	9.99
	1.9144	.8637	47.4	-141.7	•002353	2.65
	1.8746	a4756	25.5	-157.4	.002495	.81
	1.8507	.2388	28.3	-146.3	.002897	1.16
	1.8408	•0239	16.2	166.0	•002897	• 38

Table B-II. Front-Lower Grid Calculations - Model 35 (Continued)

TIME	X	Υ	U	THETA	DENSITY	Q
MICROSEC	INCHES	INCHES	FI/SEC	DEGREES	SYUPS/CAE)	C LB/SQFT
539.00	•7883	1.0302	10 2	120 6	02221	10
237400			18.4	~130.6	•0u2321	•39
	•7571 •7044	.7102 .3571	12.2	~ 99.5	.002560	•19
	•6634	-	19.7	-156.0	.002289	.44
	•6595	•0468 •0585	41.2	-140.9	.005521	4.68
	1.3385	1.1161	20.1 20.0	174.3	.005521	1.11
		•7844		-126,9	.002165	.43
	1.2722		61 3	-109.0	.002386	4.48
	1.1961	.4000	34.0	-139.8	.002460	1.42
	1.1180	.1132	50.4	-123.7	.003376	4.29
	1.0888	.0039	37.7	-148.0	•003376	2.40
	1.6176	1.1063	21.5	-111.8	.002617	•61
	1.5629	.7922	13.4	-116.6	.002359	.21
	1.4946	•3902	14.4	-146.3	.002488	.26
	1.4790	•1288	12.8	-141.3	•0u3673	• 30
	1.4927	.0117	21.2	- 48.8	.003673	• 83
	1.9337	1.1454	32.3	-158.2	•002617	1 ° 36
	1.8985	. 8098	25.3	-161.6	.002359	•75
	1.8673	•4410	20.1	-174.3	•002488	•50
	1.8459	•1951	41.7	-163.3	.003673	3.20
	1.8341	.0117	READINGS	INVAPID		
580.50	•7920	1.0866	28.5	15.9	.002260	• 92
	•7542	.7741	2.0	- 89.7	.002615	.01
	•7025	.4119	41.2	154.7	.002347	1.99
	.6786	•1035	76.3	131.9	.002861	8.33
	•6587	.0040	100.7	-166.5	.002861	14.51
	1.3294	1.1164	12.4	- 71.6	.002145	•16
	1.2856	.7751	11.8	- 90.0	.002546	.18
	1.1682	•4219	23.6	131.6	.002310	.64
	1.1224	•1353	12.4	-108.4	.002765	•21
	1.1065	.0060	8.8	63.4	.002765	.11
	1.6199	1.1562	31.4	93.6	.002641	1.30
	1.5662	.8318	19.7	95.7	.002481	• 48
	1.5005	•4517	36.1	77.5	.002594	1.69
	1.4786	.1731	25.8	98.7		INVALID
	1.4786	.0119	21.2	-146.3		INVALID
	1.9264	1.1980	52.6	63.4	•002641	3.65
	1.8905	.8557	42.3	103.4	.002481	2.22
	1.8547	.4736	30.7	116.6	•002594	1.22
•	1.8109	.2269	25.5	112.6	READINGS	
	NO READI		•			
		-				

Table B-II. Front-Lower Grid Calculations - Model 35 (Continued)

	_		••	THETA	DELETTY	0
TIME	λ 	Υ	U	THETA	DENSITY	0
MICROSEC	INCHES	INCHES	FT/SEC	DEGREES	SLUGS/CUFT	LB/SQFT
622.00	.8156	1.0380	70.6	- 64.9	.0u2342	5.84
	.7571	.7083	59.9	- 90.0	•0ū2704	4.16
	#6673	.3746	68.1	- 93.4	.002138	4.95
	.6127	.1034	35.6	-128.2	.003517	2+23
	•5620	.0351	16.1	150.3	.0u3517	• 46
	1.3424	1.1044	22.6	- 45.0	·002211	•57
	1.2722	.772?	14.5	74.1	•002481	• 26
	1.1805	.4176	30.6	- 78.7	·0u2246	1.05
	1.1141	.1015	4.0	89.9	·003232	• 03
	1.0927	.0117	10.2	- 11.3	.003232	.17
	1.6156	1.1376	49.0	-101.8	•00251?	3.02
	1.5610	.8117	12.0	- 90.0	·0u2472	.18
	1.5024	4254	17.2	-125.5	.002520	• 37
	1.4751	.1541	40.5	-122.9	.003049	2.49
	1.4751	.0000	58.3	-174.1	. 003049	5.17
	1.9571	1.1922	24.0	- 90 ₀	.002517	• 72
	1.8888	• 3507	33.0	- 76.0	•0C2472	1.34
	1.8537	.4683	37.2	-119.7	.002520	1.31
	1.8361	.2185	16.1	- 97.1	.003049	• 40
	1.8705	.0078	READINGS	INVALID		
663.50	.8219	1.0229	52.1	-109.8	•002468	3,34
	.7542	,7164	45.1	-145.6	•002465	2.51
	•6585	.3443	63.5	- 98.9	•055630	5.29
	.6567	.0756	READINGS	INVALID		
	•5 448	.0119	READINGS	INVAPIL		
	1.3453	1.1025	15.2	- 14.0	.002478	• 32
	1.2896	.7900	13.7	- 9 G .0	.002468	•23
	1.1741	.3920	43.1	-140.5	•002504	2.33
	1.1224	•1393	35.3	-160.6	.003400	2.12
	1.1164	•0040	35.5	173.7	•003400	2.14
	1.6100	1.1085	23.9	~ 55.0	•002675	• 76
	1.5632	.8199	25.5	- 90.0	•0ú2465	. 80
	1.4905	.4378	38.6	~149.5	.002504	1.87
	1.4567	.1393	43.5	-144.2	•003250	3.07
	1.4209	•0060	57.7	170.2	•003250	5.40
	1.9254	1.1741	43.5	-172.2	.002675	2.53
	1.8985	•6239	25.5	-112.5	•002465	-80
	1.6388	. 4458	35.5	- 83.7	•002504	1.58
	1.8090	.2109	41.7	-131.2	•003250	2.92
	1.7990	.0100	23.5	180.0	.003250	• 90

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Table B-II. Front-Lower Grid Calculations - Model 35 (Continued)

TIME	X	Y	U	THETA	DENSITY	Q
MICROSEC	INCHES	INCHES	FT/SEC	DEGREES	SLUGS/CUFT	LB/SQFT
705.00	•7980	•9893	22.1	- 84.8	•002283	• 56
	•7200	•6829	12.8	-128.7	•002511	.21
	•6576	•3122	30.5	58.4	READIMGS I	NVALID
	NO READI					
	NO READI					
	1.3580	1.1005	25.6	38.7	.002154	.71
	1.2722	.7590	17.2	35.5	.002467	• 36
	1.1473	•3902	37.5	64.8	•0ù2289	1.61
	1.0810	.0898	7.2	56.3	•004238	.11
	1-0576	.0156	20.0	90.0	. 004238	. 85
	1.6293	1.1180	48.4	51.7	•0027C3	3.16
	1.5410	.7863	12.8	38.7	.002357	.19
	1.4693	• 4059	20.0	• 0	.002371	.47
	1.4460	•1288	54.5	98.4	•003536	5.25
	1.4185	•0098	38-2	47.1	•003536	2.58
	1.9141	1.1863	58.0	88.0	•002703	4.54
	1.8790	.8273	51.9	112.6	•002357	3.18
	1.8576	•4332	44.7	100.3	.002371	2.37
	1.8688	-1873	36.5	99.5	•003536	2.35
7.4.50	1.7971	.0078	35.4	106.4	•003536	2.22
746.50	.8239	1.0010	11.4	-149.0	•002439	•16
	•7463	• 7045	29.8	156.8	.002624	1.17
	.7144	.3701	30.6	129.6	•002513	1.18
	.6846	.0915	READINGS			
	-5627	.0100	READINGS			
	1.3652	1.1184	33.4	176.6	.002334	1.30
	1.3035	-8000	32.3	-166.0	•002480	1.29
	1.1900	•4259	15.8	97.1	•002690	• 34
	1.1264	• 1453	21.9	- 79.7	•0u3196	•77
	1.1164	.0239	3.9	180=0	•CU3196	• 02
	1.6398	1.1463	43.0	155.8	.002834	2.62
	1.5761	.8279	33.4	176.6	.002705	1.51
	1.5104	.4378	14.9	156.8	.0u2888	• 32
	1.4488	•1930	36.1	130.6	.003113	2.03
	1.4468	.0338	15.8	-172.9	.003113	•39
	1.9284	1.2318	37.2	-161.6	•002834	1.96
	1.8786	.3716	49.1	-175.4	.002705	3.26
	1.8308	• 48 96	59.7	156.8	.002888	5.14
	1.8030	• 2468 0436	47,4	119.7	•003113	3.50
	1.7891	•0438	26.6	162.9	.003113	1.11

Table B-II. Front-Lower Grid Calculations - Model 35 (Continued)

TIME	X	Y	υ	THETA	DENSITY	٥
MICROSEC	INCHES	INCHES	FT/SEC	DEGREES	SLUGS/CUFT	LB/SQFT
788.00	.7883	.9834	65.4	- 31.3	.002376	5.09
	•6927	•5946	73.4	- 60.6	.002571	6.92
	•6380	.3356	14.5	- 15.9	•002096	•22
	•5854	.0663	24.3	- 99.5	.005512	1.63
	•5698	.0117	11.3	45.C	•005512	• 35
	1.3249	1.1024	53.8	- 21.8	•CU2123	3.07
	1.2410	.7512	59.3	- 57.4	.002610	4.59
	1.1454	•4059	58.8	- 35.3	002391	4.13
	1.0849	•0683	26.7	-103.0	.004376	1.55
	1.0537	.0156	5.7	-135.0	.004376	• 07
	1.5902	1.1356	57.3	- 29.2	•002706	4.43
	1.5278	.7883	55.3	- 40.6	•002677	4.09
	1.4556	•4117	45.3	- 41.4	.002715	2.79
	1.4166	.1561	72.2	- 41.6	.002963	7.72
	1.4029	.0078	49.3	- 21.4	•002963	3.61
	1.8790	1.1746	76.5	- 40.8	.002706	7.92
	1.8302	.8234	84.3	- 36.3	·0u2671	9.52
	1.8029	• 4506	85.4	- 57.4	.002715	9.89
	1.7854	•2283	61.7	- 29.1	•0ü2963	5.64
	1.7717	.0156	69.9	- 36.9	•002963	7.24
829.50	. 8796	•9672	29.4	- 36.9	.002277	• 98
	•7821	•6408	28.0	- 24.8	.002856	1.12
	.7284	• 3662	20.0	101.3	.002387	•48
	•6806	.0677	30.7	-116.6	•004442	2.09
	•6706	•0179	6.2	71.6	.004442	• 09
	1.4149	1.0985	24.9	- 45.0	.002175	• 68
	1.3353	.7502	37.7	27.9	•002588	1.84
	1.2378	s 3920	27.5	4.ì	.002454	• 93
	1.1204	.1194	54.9	90.0	.003351	5.04
	1.1124	.0199	14.3	15.9	•CU3351	• 34
	1.6896	1.1184	37.7	27.9	. 002616	1.86
	1.6179	•7920	41.9	52.6	.002469	2.17
	1.5443	•4080	21.6	- 5.2	.002945	•69
	1.5025	.1453	43.8	10.3	.003233	3.10
	1.4925	.0159	49.0	16.3	•003233	89.6
	1.9861	1.1821	32.8	17.4	.002616	1.41
	1.9463	•8219	67.6	29.5	.002469	5.63
	1.6766	.4179	33.3	28.1	.002945	1.63
	1.856?	.2169	21.1	- 21.8	.003233	•72
	1.8448	.0920	17.6	• Q	•G03233	•50

Table B-II. Front-Lower Grid Calculations - Model 35 (Continued)

					DENCTIV	Q
T1ME	X	Y	U	THETA	DENSITY Stugs/cuft	LB/SGFT
MECROSEC	INCHES	INCHES	FT/SEC	DEGREES	25003\C0E1	CD1.241.1
	0117	•9659	61.7	- 24.9	.002549	4.85
871.00	.8117 .7180	.6829	34.0	- 40.2	·0u2557	1.48
	⇒6341	.3551	57.2	- 65.2	.002066	3.38
	•5717	.0390	50.1	- 28.6	.004662	5.84
	•5717	.0176	44.9	- 20.9	.004662	4.70
	1.3424	1.0849	74.8	- 34el	.002304	6.45
	1.2741	.7688	52.7	- 24.6	.002508	3,49
	1.1727	.4078	67.4	- 78.0	.002496	5.67
	1.0849	.1229	56.8	- 10.1	.003153	5.09
	1.0673	.0195			.003153	
	1.6234	le153	46.3	7.4	.002708	2.91
	1.5532	.821:	42.0	- 2.7	•0ü2368	2.09
	1.4771	.4098	34.0	- 40.2	.002689	1.56
	1.4595	.1639	32.5	10.6	.003307	1.75
	1.4498	.0215	33.1	- 25.0	.003307	1.81
	1.9102	1.1844	22.8	- 15.3	·0u2708	.70
	1.8888	.8566	48.1	4.8	.092368	2.74
	1.8322	.4722	34.9	- 13.2	.002689	1.64
	1.8049	.2205	39.8	- 17.5	.003307	2.62
	1.7893	.0156	51.4	13.5	.003307	4.36
912.50	.9353	.9413	126.1	- 46.9	.002327	18.51
72404	,8080	.6189	103.5	- 18.8	.002529	13.53
	.7522	.3144	199.4	- 10.8	-002772	55.12
	.7244	.0438	237.4	8.1	.000031	- 88
	.7124	.0020	229.3	- 2.0	.000031	. 82
	1.4765	1.0567	76.5	2.9	.002395	7.01
	1.3831	.7284	64.0	- 40.0	.002443	5.00
	1.2517	•3264	66.3	- 71.0	.003018	6.63 .09
	1.1761	.1095	65.2	- 57.3	.000042	• 05
	1.1602	. •0025	46.6	- 22.2	.000042	7.80
	1.7353	1.1244	76.2	- 18.0	.002686	7.50
	1.6597	.7900	80.0	- 21.5	.002343	3.85
	1.5701	.3861	50.4	- 13.5	.003035	5.85
	1.5343	.1512	61.0	- 45.0	.003149 .003149	5.14
	1.5224	•0020	57.1	- 22.2		7.24
	2.0080	1.1761	73.4	- 9.2	•002686 •002343	3.44
	1.9940	.8259	54.2	- 40.6		6.74
	1.9104	.4100	66.6	- 65.7	•003035	5.61
•	1.0945	•2050	59 . 7	- 41.0	.003149 .003149	4.30
	1.8945	.0139	52.3	- 13.0	647577	40 70

Table B-II. Front-Lower Grid Calculations - Model 35 (Continued)

TIME	X	Y	U	THETA	DENSITY	Q
MICROSEC	INCHES	INCHES	FT/SEC	DEGREES	SLUGS/CUFT	LB/SOFT
						2073011
954,00	.8976	.8741	66.0	- 35.1	.0u2864	6.23
	•8156	•6498	60.2	- 5.7	.003049	5.53
	. 8293	.3180	18.8	- 58.0	.003581	.64
	.8059	.0722	21.5	68.2	.007199	1.67
	•8000	•0098	10.0	143.1	.007199 ·	, 36
	1.4185	1.0888	63.5	28.2	•002050	4.13
	1.3229	.7278	54.6	23.7	.002369	3.53
	1.1941	.3454	82.0	43.0	002305	7.75
	1.1200	•0683	48.0	2.4	•004033	4.64
	1.1102	•0020			.004033	
	1.6956	1.1298	52.9	10.9	.002757	3.86
	1.6273	.7922	48.0	16.9	•002523	2.91
	1.5259	-3980	69.6	50. 8	•002690	6.51
	1.5024	•1210	38.8	34.5	.003838	2.89
	1.5024	.0000	22.8	52.1	.003838	1.00
	1.9824	1.1727	72.6	31.5	.002757	7∙28
	1.9298	.8215	36.7	22.4	•002523	1.70
	1.8595	•4117	77.7	64.1	•002690	8.13
	1.8498	•1815	34.0	40.2	•003838	2.22
005 60	1.8400	•0039	27.8	21.0	.003838	1.49
995.50	•9891	•9035	84.6	5.3	.002524	9.03
	. 8677	.6129	87.5	- 74.4	•002621	10.02
	•7622	.2985	89.9	-159.6	•002474	9,99
	•7323	.0637	105.0	-166.0	·0v4163	22.95
	.7045	.0080	127.4	-178.2	-004163	33.78
	1.5323	1.0866	117.6	1.9	•002393	16.55
	1.4328	.7502	90.2	- 27.1	.002783	11.33
	1.3114	.3821	38.0	34.5	•002690	1.95
	1.2239	.1114	90.3	24.3	•003663	14.94
	1.2060	•0239	92.1	1.2	.003663	15.53
	ì•7871 1•7055	1.1343	93.1	22.2	•002658	11.53
	1.6139	•9040	62.6	- 20.1	.002767	5.42
	1.5662	.4398 .1731	66.1	- 12.0	.002645	5.78
	1.5363		60.8	20.8	•0ù2994	5.53
	2.0697	•0199 1•2139	49.1	4.6	.002994	3.61
	2.0279	•8398	89.9	11.3	.002658	10.74
	1.9443	• 4796	80.8	14.0	.002767	9.03
	1.9204	• 2259	76°2	25 ₊ 9	•002645	7.68
	1.9204	.0239	76.6	32.5	.002994	8.79
	14 /404	90637	<i>3</i> 6.7	3.4	•0ú2994	6.66

Table B-II. Front-Lower Grid Calculations - Model 35 (Continued)

			บ	THETA	DENSITY	Q
TIME	X	Y	FT/SEC	DEGREES	SLUGS/CUFT	LB/SUFT
MICROSEC	INCHES	INCHES	F1732C	Deomas		
	2015	.8820	59.9	• 0	.002200	3.95
1037.00	.9815	•5659	44.4	- 54.2	.003263	3.21
	.8390	2868	52.9	- 10.9	. 002625	3.67
	.7454	.0468	27.2	- 72.9	. 004017	1.48
	.7044	.0059	24.0	•0	.004017	1.15
	36732	1.0927	53.8	31.3	.002058	2.98
	1.5356	.6868	26.7	- 13.0	.002573	.91
	1.4029	.3668	36.2	6.3	.002464	1.61
	1.2254	.1054	16.5	- 76.0	.0u3446	•47
	1.2020	.0039	24.7	- 76.0	. 0u3446	1.05
	1.2020	1.1649	43.8	65.8	.002495	2.40
	1.7815	.7707	42.1	- 5.4	.002579	2.29
	1.6859 1.5902	.3844	22.8	- 52.1	.002926	• 76
	1.5590	.1424	38.2	- 84.0	.003135	2.28
	1.5512	.0039	35.0	- 31.0	.003135	1.91
	2.0702	1.1902	21.2	131.2	.002495	.56
	2.0078	.8410	22.8	105.3	.002579	.67
	1.9278	.4449	20.0	• 0	.002926	.58
	1.9141	.2224	36.8	12.5	.003135	2.13
	1.9063	.0078	37.5	- 25.2	.003135	2.21
1070 FA	1.0488	.9035	32.1	-142.4	.002392	1.23
1078.5G	.8935	.5771	30.6	129.8	.002822	1.32
	.8139	.2886	104.0	-132.7	.002417	13.07
	.7403	.0378	READING			7 70
	.7284	.0080	56.8	178.0	.004820	7.79 4.25
	1.5781	1.1144	62.2	151.8	.002195	4.81
	1.4587	.7443	58.8	120.0	.002780	.73
	1.3473	.3861	23.8	9.5	.002567	5.60
	1.2279	•0955	55.2	-173.9	.003678	10.53
	1.2119	.0000	75,7	158.7	.003678	8.67
	1.8050	1.1741	77.5	159.3	.002888	6.62
	1.7473	.8000	67.9	123.2	.002868	3.89
	1.6279	.4219	56.1	155.2	.002470	7.44
•	1.5701	.1353	72.7	-175.4	.002812	6.42
	1.5662	.0020	67.6	163.1	.002812	19.11
	2.0557	1.2299	115.1	137.1	.062888	10.15
	2.0219	.8617	84-1	152.2	.002868 .002470	4.13
	1.9642	.4796	57.9	151.7	.002812	6.58
	1.9562	.2348	68-4	166.8	.002812	11.96
	1.9542	-0080	92.2	167.7	•002812	*** ***

Table B-II. Front-Lower Grid Calculations - Model 35 (Continued)

TIME	x	Y	U	THETA	DENSITY	Q
MICROSEC	INCHES	INCHES	FT/SEC	DEGREES	"LUGS/CUF"	
1120.00	•9561	.8624	52.8	- 29.5	.002582	3.60
	.8195	•5893	67.9	•0	.002458	5.67
	.6751	.2107	43.1	- 76.6	READINGS	INVALID
	NO READI	NG	READINGS	INVALID		
	.6166	.0078	21.2	131.2	READINGS	INVALIO
	1.4810	1.1220	28.3	45.0	.002275	•91
	1.3737	•7376	28.8	- 33.7	•002664	1.11
	1.2488	•3707	33.5	-107.4	.002688	1.51
	1.1473	• 0995	38.8	-124.5	.004643	3,49
	1.1317	.0312	18.4	167.5	.004643	• 79
	1.7093	1.1922	37.7	32.0	. 002680	1.90
	1.6488	.8273	26.8	63.4	•002566	• 92
	1.5395	•4078	41.2	- 39.1	.002718	2.31
	1.4868	• 1 366	22.1	- 5.2	.003549	• 86
	1.4868	.0234	14.1	45.0	.003549	• 35
	1.9863	1.2683	41.6	35.2	.002680	2.32
	1.9337	.8800	39.3	14.7	.002566	1.98
	1.8771	•4722	34.0	- 61.9	.002718	1.57
	1.8478	•2380	27.2	- 72.9	•003549	1.31
	1.8166	.0273	6.0	180.0	. 003549	• 06
1161.50	1.0945	.8776	50.9	22.6	.002530	3.28
	•9612	•5771	86.1	-108-4	.002839	10.68
	.8239	, 2468	83.1	55.6	READINGS	INVALID
	NO READI		READINGS	INVALID		
	.7144	. (239	READINGS	INVALID		
	1.5980	1.1343	23.6	48.4	.002154	•60
	1.4826	.7284	19.3	-114.0	•0u2476	•46
	1.3373	• 3542	47.1	-135.0	•002402	2.66
	1.2060	•0637	77.2	-144.3	.004258	12.69
	1.1940	•0040	67.0	-159.4	.004258	9.54
	1.8368	1.1940	30.0	78.7	.002706	1.22
	1.7592	•8239 3240	31.0	-124.7	•002496	1.20
	1.6597	• 3960	12.5	-141.3	.002731	.21
	1.5920	•1333	37.3	~177.0	•003292	2.29
	1.5761	.0119	49.0	-163.7	.063292	3.95
	2.0896	1.2537	20.2	150.9	.002706	• 55
	2.0597	+8716	23.5	- 90.0	.002496	•69
	1.9801	•4498 3000	14.9	-156.8	.002731	. 30
	1.9642	• 2090	41.9	-100.8	•003292	2.89
	1.9483	•0080	22.3	- 37.9	•003292	.82

Table B-II. Front-Lower Grid Calculations - Model 35 (Continued)

TIME	X	Y	U	THETA	DENSITY	Q
MICROSEC	INCHES	INCHES	FT/SEC	DEGREES	SLU6S/CUFT	
1203.00	1.0029	.8820	81.9	12.7	002293	7,69
	.7922	•5073	40.0	- 92.9	·0u3146	2.52
	•7220	•2790	41.2	50. 9	READINGS	INVALID
	NO READI		READINGS	5 INVALID		
	NO READI					
	1.4966	1.1395	69.6	39.2	•0u2150	5.21
	1.3659	•7200	53.3	13.0	•002645	3.76
	1.2156	•3376	55.7	21.0	.002595	4.02
	1.0849	•0546	97.6	10.6	•004694	22.35
	1.0693	.0078	100.6	6. 8	.004694	23,76
	1.7151	1.2215	52.4	40.4	.002410	3.31
	1.6312	.8020	47.5	14.6	.002632	2.97
	1.5298	•4000	64.0	38.7	•002469	5.05
	1.4498	•1346	85.4	20.5	.003249	11.84
	1.4400	•0098	48.0	• 0	.003249	3.74
	1.9688	1.2780	52.4	49.6	.002410	3.31
	1.9337	•8566	42.3	70.7	•002632	2.36
	1.8634	•4663	77.1	36.6	•002469	7.34
	1.8400	.1971	71.5	35.9	.003249	8.31
	1.8341	.0137	38.4	9.0	.003249	2.40
1244.5G	1.1741	•8955	71.8	- 11.0	.002328	6.01
	•9592	•5373	146.3	7.7	.0030CZ	32.12
	-8498 7020	•2786	63.8	- 42.5	.002275	4.63
	.7920	.0199	READINGS			
	•7920	•0060	READINGS			
	1.6517	1.1781	46.1	102.3	.002077	2.21
	1.5343	•7403	44.7	52.1	•00266e	2.66
	1.3891	•3741	29.1	-137.7	• G02386	1.01
	1.3015	•0816	21.5	90.0	•003950	• 92
	1.2935	.0159	2.0	- 89.7	.003950	•01
	1.8766	1.2279	20.8	131.2	•002868	~62
	1.8050	•8358	31.3	90.0	•0ù2688	1+32
	1.7095 1.6716	•4358	23.7	65.6	.002677	75
		.1632	26.4	- 48.0	•002908	1.01
	1.6239	.0119	18.5	- 32.0	.002908	• 50
	2.1234	1.2935	23.8	170.5	.002868	.81
	2.0736	.9114	50.1	120.6	•022688	3.37
	2.0418 2.0219	.4955 3507	2.0	•0	•092677	•01
	1.9861	• 2507	20.2	119.1	•002908	• 59
	10201	.0139	26.6	-162.9	•002908	1.03

Table B-11. Front-Lower Grid Calculations - Model 35 (Continued)

TIME	X	Y	U	THETA	DENSITY	O
MICROSEC	INCHES	INCHES	FT/SEC	DEGREFS	SLUGS/CUFX	LB/SQFT
1286.00	1.0732	.8683	82.4	- 76.0	•0v2888	9.80
	•9366	•5268	62.4	- 39.8	·0u3527	6.87
	.7688	.2361	82.9	- 74.6	READINGS	INVALID
	NO READI	NG	READINGS	INVALID		
	NO READI	NG				
	1.4858	1.1844	33.9	45.0	•0u2241	1.29
	1.3932	•7551	57.2	12.1	.002500	4.09
	1.1941	.3180	34.1	- 59.4	.002380	i.39
	1.0849	.0751	30.6	- 78.7	.004119	1.92
	1.0693	.0059	8.9	116.6	.004119	•15
	1.7015	1.2371	31.6	55 •3	.002753	1.37
	1.6312	。8332	29.1	15.9	·002572	1.09
	1.5395	.4215	41.2	- 76.0	.002501	2.12
	1.4673	.1151	33.9	- 45.0	•003424	1.97
	1.4556	•0000	32.2	- 7.1	•0u3424	1.78
	1.9454	1.2820	28.8	123.7	•002753	1.14
	1.9083	·899>	10.0	•0	.002572	.13
	1.8654	•4663	36.5	- 99.5	•0ú2501	1.66
	1.8302	.2146	44.4	- 82.2	.003424	3.37
	1.8088	•0059	35.4	- 16.4	.003424	2.15
1327.50	1.1940	.8159	76.6	~ 85.6	.002449	7.19
	1.0070	.4975	74.9	-132.9	.002826	7.92
	.8716	.1990	40.4	-104.0	READINGS	INVALID
	NO READ!	I NG	READINGS INVALID			
	.8199	.0159	READINGS			
	1.6756	1.2020	116.6	24.8	.002121	14.41
	1.5900	.7522	121.4	17.9	•002529	18.65
	1.4010	.3423	110.6	7.1	.002401	14.67
	1.3075	.0517	READINGS			
	1.2896	.0239	125.5	2.7	•005030	39.62
	1.8945	1.2537	89.3	15.3	•002983	11.91
	1.8328	.8439	110.3	12.3	•302600	15.81
	1.7194	•3960	86.6	- 5.2	.002828	10.59
	1.6955	.1393	103.4	9.8	•003404	18.19
	1.6557	.0080	102.0	3.3	.003404	17.72
	2.1075	1.3174	72.9	6+2	.002983	7.93
	2.0835	p9114	90.3	3.7	.002600	10.60
	2.0358	~4597	67.3	- 8.4	.002828	6.41
	2.0279	.2070	86.8	6.5	.003404	12.81
	2.0199	£ (1940	96.0	• 0	•003404	15,68

Table B-II. Front-Lower Grid Calculations - Model 35 (Continued)

TIME	x	Y	Ú	AZBKT	DEHSITY Q	
MICROSEC	INCHES	INCHES	FT/SEC	DEGREES	SLUGS/CUFT LB/SQF1	r
MEMOSEC	1.00112.5	11101123	177520	DEGMENT	22000,001.	
1369.00	1.0790	.7922	223.4	51.9	.902411 60.18	
	.8859	.4722	100.9	- 98.0	.002632 13.39	
	.7590	.1971	46.6	43.3	READINGS INVALID	
	NO READ!	NG	READINGS	INVALID		
	NO READI	NG				
	1.5922	1.2332	78.7	54,3	.0u2296 7.12	
	1.5083	.7922	94.7	45.9	.002446 10.96	
	1.3034	.3317	50.6	9.1	READINGS INVALID	
	NO READI	NG				
	1.1941	.0117	78.3	5.9	READINGS INVALID	
	1.7873	1.2605	72.7	69. i	.002876 7.61	
	1.7385	.8566	50.1	23.5	•002605 3•27	
	1.6254	.4137	55.1	43.5	.002833 4.30	
	1.5688	.1327	28.8	56.3	.003290 1.37	
	1.5571	•0059	42.9	27.8	.003290 3.03	
	2.0176	1.2898	61.2	38.4	.002876 5.38	
	1.9980	.9054	65.2	40.0	.002605 5.54	
	1.9317	• 4566	56.0	34,8	•002833 4•44	
	1.9161	.2244	42.0	64.7	.003290 2.90	
	1.9044	•0059	32.3	68.2	.003290 1.71	
1410.50	1.3313	•9910	223,0	44.6	.001939 48.23	
	•9930	•398G	112.8	17.2	•003049 19•39	
	•9055	.2308	83.1	-135.0	READINGS INVALID	
	NO READI	NG	READINGS	INVALID		
	. 8697	•0239	READINGS	INVALID		
	1.7214	1.2657	101.7	154.9	.002152 11.12	
	1.6557	.8199	89.2	-171.2	.002533 10.08	
	1.4507	• 3502	65.1	173.1	.002637 5.59	
	1.3692	.0677	READINGS	INVAPID		
	1.3672	•0318	109.8	-178.0	•005179 31•20	
	1.9204	1.3214	109.8	145.2	•002651 15.98	
	1.8786	.8637	92.9	161.6	•002599 11•22	
	1.7592	.4338	88.2	180.0	.002812 10.93	
	1.7114	•1632	102.2	-175.6	.003399 17.74	
	1.6935	.0279	90.3	176.3	•003399 13•86	
	2.1552	1.3552	109.9	148.9	.002651 16.00	
	2.1333	•9532	100.8	153.4	.002599 13.19	
	2.0816	•4915	84.4	158.2	.002812 10.01	
	2.0458	.2448	87.3	-171.0	.003399 12.95	
	2.0318	.0338	82.3	178.6	•003399 11.51	

Table B-11, Front-Lower Grid Calculations - Model 35 (Continued)

Model 35, Shot 332

TTME	~	V	υ	THETA	DENSITY	Q
TIMÉ	X	Y INCHES	FT/SEC	DEGREES	SLUGS/CUFT	
MICROSEC	INCHES	INCHES	FITTE	DEGKECS	3200370011	2575411
1452.00	1.2371	.9483	272.9	42.9	.0¢3462	128.87
	.9932	.5054	221.8	35.8	·003365	82.78
	.7005	.1385	55.7	-111.0	READINGS	GIJAVAL
	NO READI		READINGS	INVALID		
	NO READI					
	1.5005	1.2761	61.1	78.7	.0v2099	3.92
	1.4205	.7785	16.5	- 14.0	·002582	.35
	1.2390	• 3395	14.5	- 74.1	READINGS	INVALID
	NO READ!	NG				
	1.0849	.0078	32.2	-150.3	READINGS	INVALID
	1.6976	1.3229	53.8	74.9	.002754	3.98
	1.6507	.8859	50.9	64.4	·0u2479	3.22
	1.5376	. 4137	18.4	40.6	•0u2499	•42
	1.4673	.1249	21.2	48.8	•0u3456	• 78
	1.4673	.0117	10.8	-111.8	.003456	• 20
	1.9239	1.3463	37.9	108.4	.002754	1.98
	1.9083	• 9502	22.8	74.7	.002479	• 64
	1.8537	.4878	39.4	59.5	•0u2499	1.94
	1.8302	.2107	22.3	63.4	.003456	• 86
	1.8224	.0078	20.0	- 36.9	•003456	•69
1493.50	1.5303	1.1761	227.2	32.3	.002501	64.54
	1.1721	•5274	155.0	- 2.9	.002821	33.87
	.8856	.1791	READINGS			
	NO READ		READINGS			
	.8219	,0020	REAUINGS			
	1.7333	1.3254	158.2	21.8	.001969	
	1.6716	.8159	173.9	22.5	.002478	37.48
	1.4547	.3363	136.1	6.6	.002665	24.68
	1.3572	. 0716	READINGS			CE 22
	1.3393	.0159	168.5	- 1.3	•003889	55.23
	1.9343	1.3731	141.3	19.4	.002803	21.91
	1.9005	• 9095	146.8	18.7	•002574	27.74
	1.7731	.4458	145.4	14.0		29.38
	1.7254	.1791	165.4	13.7	•002853	39.00
	1.6896	.0179	143.0	. 8	•002853	29.18
	2,1433	1.3910	133.3	24.3	•002805	24.89
	2.1393	.9751	125.0	13.6	•002574	20.10
	2.1015	.5254	148.2	7.6	.002780	30e 54
	2.0557	• 2647	147.3	13.9	•002853	30.94
	2.0478	•0219	147.6	5.3	.002853	31.06

Table B-II. Front-Lower Grid Calculations - Model 35 (Continued)

TINE	X	Y	U	THETA	DENSITY	٥
MICROSEC	INCHES	INCHES	FT/SEC	DEGREES	SLUGS/CUF	
1505 00						
1535.00	1.4283	1.0693	28.4	129.3	•00~288	1.33
	1.1473	•4976	66.4	- 15.7	READINGS	INVALID
	NO READI					
	NO READI		READINGS	INVAPID		
	NO READI					
	1.6468	1.3346	56.3	62.5	.002276	3.61
	1.5805	•8449	38.2	6.0	.002503	1.82
	1.3737	•3551	81.1	38.C	READINGS	INVALID
	NO READI					
	1.2527	•0039	12.2	170.5	READINGS	= :
	1.8302	1.3698	48.0	87.6	.002838	3.27
	1.7893	•9327	39.7	49.1	.002434	1.91
	1.6780	•4488	46.8	20.0	•002609	2.85
	1.6273	.1639	59.3	- 45.0	•002986	5.25
	1.6098	.0137	44.1	- 5.2	•002986	2.91
	2.0449	1.4010	35.4	73.6	.002838	1.78
	2.0293	•9795	31.0	75.1	•002434	1.17
	2.0000	•5073	43.2	33.7	•002609	2.44
	1.9727	.2459	63.5	12.7	•0ú2986	6.02
1574 50	1.9688	.0215	48.0	.0	.002986	3,43
1576.50	1.5124	1.1980	114.7	110.0	.002137	14.05
	1.2358	•5095	137.1	-134.4	.003188	29 . 98
	.9055 NO READI	.1373	READINGS	INVALID		
	.8915		READINGS	INVAL ID		
	1.7592	.0080	READINGS	INVAPID	*****	
	1.7095	1.3751	45.4	97.4	.002000	2.06
	1.5184	.8199 .3861	41.9	- 10.8	•002690	2.36
	1.3592	.0478	64.1 DEADING	- 66,5	.002048	4.23
	1.3274	.0179	READINGS	INVALID	004464	
	1.9363	1.4209	3 250 4 500€	49.8	•0048196	2.72
	1.9264	•9393	13.7	80.1	•0027 32	2.71
	1.8169	.4617	53.8	45.0	-002611	• 25
	1.7672	•1373	33.4	- 10.5	•002408	3.48
	1.7333	.0139	10.5	~ 49.8	•002980	1.66
	2.1532	1.4249	36.6	~158.2	•002980 •002783	.17
	2.1473	1.0050	20.8	105.5	•002782	1.86
	2.1373	•5493	19.7	48.8 95.7	•002611	•57
•	2.1174	2786	20.8	- 48.8	•002408	•47
	2.0955	.0219	17.7	- 81.7	,002980 •002980	• 65
			****	0.00	•U\$£360	•47

Table B-II. Front-Lower Grid Calculations - Model 35 (Continued)

TIME	X	Υ	y	THETA	DENSITY	Q
MICROSEC	INCHES	INCHES	FT/SEC	DEGREES	SEUGS/CUFT	LB/SGFT
1618.00	1.3893	1.1766	199.3	68.6	, 3J1842	36.57
	1.0517	.4000	READINGS			
	NO READI	NG	REACINGS			
	NO READI	NG	REAUINGS	INVALID		
	NO READ!	NG	READINGS	INVALID		
	1.5410	1.3795	68,4	96 _c 7	.0u2144	5.01
	1.6215	.257;	60.0	60.0	.002407	4.33
	1.3990	2 2966	55.7	- 75.5	READINGS	INVALID
	NO READ!	NG				
	1.2741	.0293	78.3	- 5.9	READINGS	INVALID
	1.838G	1.4146	46.1	85.0	.002735	2.91
	1.7990	.9424	47.5	75.4	•002644	2,98
	1.7307	•4390	55.6	37.7	. 0ú2680	4,15
	1.6488	•1385	56.0	34 ₀ 8	.0u3180	4.98
	1.6000	•0098	58.1	3.9	.C03180	5.36
	2.0351	1.4361	46.6	99.9	.002735	2,98
	2.0429	+9951	48.0	90.0	.002644	3.94
	1.9980	•5268	18.4	77.5	.002680	• 45
	1.9863	•2302	8.2	-166.0	.0u3180	•11
	1.9707	•0039	4.5	63.4	.003180	• 03
1659.50	1.5841	1.3831	244.5	61.8	READINGS	INVALID
	NO READI		READINGS	INVAL ID		
	NO READI		READINGS			
	NO READI			INVALID		
	NO READI		READINGS	INVALID		
	1.7512	1.4428	119.5	79.6	·0u1961	14.90
	1.7393	.8716	107.8	65.3	·002385	13.86
	1.5323	•3323	83.2	46.9	•002231	7.71
	1.4209	.0418	READINGS			
	1.4059	•0100	68.6	•0	•004246	9.98
	1.9403	1.4667	93.1	81.5	.002941	12.74
	1.9383	.9851	77.8	49.1	•0ú2730	8.26
	1.8607	•4955	68.4	66.4	•0ú27C0	6.32
	1.8123	•1692	63.1	25.8	.003280	6.53
	1.7910	0:79	76.1	11.9	•00328C	9.49
	2.1453	1.4706	62.6	69.9	.002941	5.76
	2.1473	1.0527	57.1	67.8	•002730	4.45
	2.1413	•5672	71.0	39.4	.0027C0	6.80
	2.1095	• 2766	87.8	51.3	•003280	12.65
	2.0975	•0259	54.6	14.5	•003280	4.90

Table B-II. Front-Lower Grid Calculations - Model 35 (Continued)

TIME	x	¥	ប	THETA	DENSITY	Q
MICROSEC	INCHES	INCHES	FT/SEC	DEGREES	SLUGS/CUFT	LB/SOFT
1701.00	1.5044	1.3912	READINGS	INVALID		
	NO READI			INVAPID		
	NO READI	NG	READINGS	INVALID		
	NO READING NO READING		READINGS	CIGAVAL		
			READINGS	INVALID		
	1.6624	1.4966	78.7	56.0	•002003	6.21
	1.6663	.9346	115.3	56.3	·0u2407	15.99
	1.4556	.3571	90.3	24.9	.002307	9.40
	1.3424	.0488	71.6	23.C	.005419	13.90
	1.3424	.0293	48.0	16.9	.005419	6.25
	1.8517	1.5963	45.6	6i.2	.002740	2.85
	1.8498	1.0010	71.0	32.3	•002623	6,60
	1.7580	.3015	34.1	20.6	. 002490	1.45
	1.7054	•1659	23.4	20.0	•002769	• 76
	1.6741	•0254	36.0	3.2	•002769	1.80
	2 0566	1:4946	39.4	66.Û	.002740	2.12
	2.0644	1.0478	50.9	48.2	.992623	3.40
	2.0527	65717	39.7	40.9	.002490	1.96
	2.0410	. 2985	57.9	46.4	.002769	4.65
	2.0234	.0176	28.6	~ 12.1	·0u2769	1.13
1742.50	NO READI		READINGS			
	NO READS		READINGS			
	NO READI		READINGS			
	NO READI		READINGS			
	.9473	• 0020	REAUINGS			
	1.7831	1.5144	9.8	143.1	.002053	•10
	1.8030	•9572	36.1	- 12.5	•002353	1.54
	1.6139	.3701	45.9	- 20.0	.002537	2.67
	1.4866	• 9697	READINGS		004000	
	1.4507	.0239	27_8	~ 39.3	.004092	1.59
	1.9622	1.5065	23.6	85.2	.003152	.88
	1.9980	1.0229	66.6	42.6	.002826	6.26
	1.8925	•5075	43.8	10.3	•002708	2.60
	1.8348	.1771	40 . 4	14.0	.002846	2.32
	1.8269	.0199	58.9	- 21.4	.002846	4,94
	2.1612 2.1811	1.5065 1.0905	33.5 63.6	96.7 56.3	•003152	1.77
	2.1711	•5930	40.9	16.7	•002826 •002708	5.71 2.27
	2.1493	•3184	42.3	13.4	•002846	2.55
	2.1254	.0199	25.5	- 22.8	.002846	•92
	E01627	• 4177	6.J+J	~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~	# UV2 07U	• 74

Table B-II. Front-Lower Grid Calculations - Model 35 (Continued)

TIRE	x	¥	U	THETA	DEMSITY	Q
MICROSEC	INCHES	INCHES	FT/SEC	DEGREES	SEUCS/CUF!	LB/SQF1
1784.00	NO READING		READINGS	INVALID		
	NO READI		READINGS			
	NO READI	NG	READINGS	INVALID		
	NO READI	NG	READINGS			
	NO READI	NG	READINGS	INVALID		
	1.6546	1.5024	56.5	148.0	.001841	2.94
	1.7015	•9268	24.7	- 14.0	.002333	• 13
	1.4985	.3415	28.6	- 65.2	READINGS	INVALID
	NO READI	NG				
	1.3639	.0117	23.3	- 59.0	READINGS	INVALID
	1.9537	1.5298	38.4	99.0	•0u2965	2.19
	1.8985	1.0459	50.0	106.3	•002520	3.14
	1.6010	•5093	50.0	- 36.9	.002502	3.12
	1.7444	•1756	35.0	- 59.0	•002585	1.58
	1.7288	•0039	24.1	- 41,6	•0u2585	• 75
	2.0527	1.5278	22.8	142.1	•002965	•77
	2.0995	1.1005	16.1	82.9	•002520	• 33
	2.091	•583+	8.9	- 63.4	.0025G2	.10
	2.0820	• 3083	32.8	- 37.6	•002585	1.39
	2.0468	.0078	36.0	- 19.4	•002585	1.68
1825.50	NO READING		READINGS			
	NO READING		READINGS			
	NO READI		READINGS			
	NO READI		READINGS			
	NO READI		READINGS			
	1.7353	1.5443	38.8	135.0	.001932	1.45
	1.8269	.9612	29.5	93.3	.002214	• 96
	1:6259	.3443	35.3	- 70.6	.002381	1.48
	1.4826	.0458	READINGS			
	1.4627	.0040	66.1	168.0	.004276	9.34
	1.9562	1.5443	100.4	159.4	.003188	16.08
	1.9841	1.0706	80.3	178.6	•002628	8.48
	1.9323	•4776	75.6	-148.8	.002413	8.04
	1.8527	.1473	57.9	-151 _e 7	.002870	4.80
	1.8448	•0040	43.1	180.0	.002870	2.67
	2.1433	1.5204	76.6	175.6	.003188	9.36
	2.1831	1.1065	81.8	-163.3	.002628	8.80
	2.1751	,5851	74.9	-174.0	.002813	7.88
	2.1751	•2985	94.6	-152.9	.002870	12.85
	2.1592	•0080	60.9	-176.3	.002870	5.31

Table B-II. Front-Lower Grid Calculations - Model 35 (Continued)

TIME MICROSEC	X INCHES	Y INCHES	U FT/SEC	THETA DEGREES	DENSITY SLUGS/CUFT	Q L8/SQFT
1867.00	NO READING NO READING NO READING NO READING		READINGS READINGS READINGS READINGS	INVAL 1D		
	NO READI 1.6273 1.6995	NG 1.5298 .9561	READINGS 6.3 27.2	INVALID -161.6 107.1 - 54.9	.002738 .003121 .002945	.05 1.15 6.41
	1.5102 1.3151 1.2995 1.7600	.3083 .0156 .0254 1.5649	66.0 READINGS 74.0 44.4	INVAL ID 3.1 144.2	•005111 •002682	14.91 2.64
	1.8185 1.7366 1.6907	1.0478 .4702 .1483 .0039	36.8 18.8 77.1 46.1	49.4 58.0 31.2 - 5.0	.002490 .002591 .003217 .003217	1.69 .46 9.56 3.42
	1.6859 1.9766 2.0215 2.0176	1.5337 1.0771 .5756	61e7 23.4 18.8	114.9 - 20.0 - 58.0	.002682 .002490 .002591	5.10 .68 .46
1908.50	1.9980 1.9863 NO READI NO READI		32.0 8.G READINGS READINGS		.003217 .003217	1.64
	NO READI NO READI NO READI	NG NG	READINGS READINGS READINGS	INVALID INVALID INVALID		
	1.7294 1.8189 1.6637 NO READI	1,5423 .9871 .2965	124.4 70.8 26.3 READINGS	116.2 75.6 63.4 INVALID	.001921 .002052 READINGS I	14.87 5.14 Invalid
	1.5363 1.9204 2.0080	.0080 1.5701 1.0985	58.0 81.9 80.4	- 11.7 159.0 124.1	READINGS 1 •002920 + •002582	9.78 8.35
	1.9423 1.9184 1.8905 2.1174	.4935 .1871 .0000 1.5761	68•4 67:9 53•8 94•5	103.2 133.8 169.5 146.0	.003330 .003330 .003330	7.23 7.68 4.82 13.05
	2.2050 2.1851 2.1751 2.1592	1.0985 .5692 .2667	73.7 71.9 63.6	129.6 119.4 123.7	.002582 .003087 .003330	7.02 7.98 6.73
	201776	+ 3000				

Table B-III Rear-Lower Grid Calculations - Model 35

TIME	X	Ÿ	U	THETA	DENSITY	Q
MICROSEC	INCHES	INCHES	FT/SEC	DEGREES	SLUG3/CUFT	LB/SQFT
• -						
15.00	2.1307	1.4224	39.7	44.1	.002501	1.97
	2.1171	1.0888	44.9	57.7	.001981	2.00
	2.1151	-5698	41.2	- 22.8	.002359	2.00 2.59
	2.0956	.2946	47.0	- 12.3	.002339	
	2.9956	•0000	38.9	•0	.002339	1.69
	2.5346	1.3502	30.6	- 11.3	.002437	1.14
	2.5327	1.0166	33.0	14.0	.002272	1.62
	2.5171	.5756	38.2	- 47.1	.002218	3.75
	2.5112	.2751	56.0	- 55.2	.002390	1.26
	2.5093	.0117	32.5	- 10.6	.002390	.55
	2.8722	1.3151	22.8	- 15.3	.002112	
	2.8722	.9483	24.3	9.5	.002470	ć í •
	2.8605	.5541	27.8	- 30.3	.002225	.86 1.77
	2.8605	.2380	37.2	- 36.3	.002558	1.33
	2.8605	.0078	32.3	21.8	.002558	
	3.2820	1.2800	28.3	8.1	.002112	.84
	3.2624	.9093	52.3	- 46.5	.092470	3.38
	3.2488	•5034	29.7	19.7	.002225	•98 56•23
	3.2429	.1912	209.7	- 82.3	.002558	-
	3.2351	.0039	28 - 3	- 45.0	.002558	1.02
56.50	2.1652	1.4209	8-1	- 14.0	-002354	.08
	2.1552	1.0786	29.4	- 53.1	.002112	.91
	2.1532	.5891	32.1	52.4	.092356	1.22
	2.1532	.3025	40.4	14.0	.002613	2.13
	2.1532	.0159	39.2	•0	.002613	2.01
	2.5672	1.3811	26.3	26.6	.002462	•85
	2.5552	•9990	23.8	9.5	.002214	.63 .73
	2.5473	.5612	25.5	- 32.5	.002241	1.22
	2.5552	.2547	29.8	- 66.8	.002730	
	2.5552	.0259	71.5	- 9.5	.002730	6.98
	2.8876	1.3234	51.3	- 6.6	.002174	2.86
	2.8876	.9871	72.0	22.4	.002359	6.12
	2.8876	.5512	75-1	- 15.1	.001695	4.78
	2.8995	.2388	74.2	- 12.2	.004534	12.47
	2.8995	.0279	70.6	- 3.2	.004534	11.31
	3.2856	1.3134	71.0	6.3	.002174	5.47
	3-2876	•9294	87.4	19.7	.002359	9.00
	3.2796	.5393	85.1	7.9	.001695	6.13
	3.2796	.0239	98.4	31.2	.004534	21.97
	3.2716	.0000	86 • 3	- 2.6	•004534	16.88

Table B-III. Rear-Lower Grid Calculations - Model 35 (Continued)

77.116	~	v	U	THETA	DENSITY	0
TIME	X	Y	FT/SEC	DEGREES	SLUGS/CUFT	LB/SQFT
MICROSEC	INCHES	INCHES	F1/3CU	DEGREES	3600236011	CD/ 34
98.00	2.1385	1.4205	4.0	•0	.002342	.02
,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	2.1346	1.0654	30.5	-121.6	.002028	•94
	2.1346	.5951	26.9	138.0	.002311	.84
	2.1346	-3044	23.4	160.0	.002370	•65
	2.1346	.0000	25.0	151.4	。002370	.74
	2.5580	1.3620	29.1	-105.9	.002298	.97
	2.5561	1.0205	7.2	-146.3	.001858	.05
	2.5385	.5620	4.0	180.0	.001880	•02
	2.5229	.2478	17.9	153.4	.002337	•37
	2.5795	.0000	28.8	-123.7	.002337	.97
	2.9229	1.3093	14-1	98.1	.002193	.22
	2.9385	.9756	13.4	63.4	.002214	-20
	2.9327	.5346	16-1	60.3	.002321	.30
	2.9327	.2224	10.8	111.8	.002242	.13
	2.9307	.0039	26.3	- 98.7	.002242	.77
	3.3522	1.2878	22.3	-116.6	.002193	•55
	3.3444	.9385	38.8	145.5	.002214	1.67
	3.3327	.5151	44.2	161.6	.002321	2.27
	3.3268	.2420	186.6	103.0	.002242	39.04
	3.3210	.0000	32.0	176.4	.002242	1.15
139.50	2.1692	1.4209	36.6	- 74.5	.002344	1.57
	2.1393	1.0527	58.2	- 45.0	.002156	3.65
	2.1333	.6070	49.9	- 48.2	.002280	2.84
	2.1313	.3104	33.3	- 28.1	.002443	1.35
	2.1313	.0279	29.6	7.6	.002442	1.07
	2.5592	1.3532	50.2	- 51.3	.002476	3.12
	2.5493	•9950	15.8	7.1	.002153	.27
	2.5433	.5612	18-1	- 49.4	.002176	.35
	2.5393	.2627	31.4	86.4	.002287	1.13
	2.5393	-0020	54.9	178.0	.002287	3,44
	2.8856	1.3373	26.6	126.0	.002435	.86
	2.8935	•9990	42.2	-158.2	-002631	2.34
	2.8955	.5652	47.1	135.0	.002371	2.63
	2-8955	.2488	43.1	140.5	.002623	2.44
	2.8955	•0020	31.3	180.0	-002623	1.29
	3.2756	1.2935	45.7	170.1	.002435	2.55
	3.2557	.9512	58.4	166.4	.002631	4.49
	3.2378	•5532	60.9	176-3	.002371	4.39
•	3.2378	.2050	72.9	-143.7	.002623	6.97
	3.2398	-0020	53.5	171.6	.002623	3.75

Table B-III. Rear-Lower Grid Calculations - Model 35 (Continued)

Model 35, Shot 334

TIME	X	Y	U	THETA	DENSITY	9
MICROSEC	INCHES	INCHES	FT/SEC	DEGREES	SLUGS/CUFY	LB/SQFT
		1.10-12-5	, 500	DEGREES	3600376061	COL 261-1
181.00	2-1483	1.3854	58 - 1	- 93.9	.002483	4.19
	2.1756	1.0244	39.7	- 49.1	.002126	1.67
	2.1678	•5580	64.6	- 68.2	•002771	5.77
	2-1639	.2888	38.4	- 81.0	.002569	1.97
	2.1639	.0039	22.1	~ 84.8	.002669	•65
	2.5893	1.3229	30.0	- 53.1	•002659	1.19
	2.5717	1.0224	28.8	- 56.3	.002215	•92
	2.5502	•5483	26.0	- 90.0	.002229	•75
	2.5249	-2790	14.0	- 90.0	.002110	-21
	2.5249	.0020	32.2	60.3	•002110	1.10
	2.9073	1.3307	34.0	- 86.6	.002215	1.28
	2.8995	-9600	77.9	- 88.5	.002455	7.46
	2.8995	•5578	31.0	~104.9	•002278	1.10
	2.8995	•2÷98	44.1	- 95.2	-002512	2.45
	2.8995	•0×39	4.0	180.0	.002512	.02
	3.3073	1.2956	46.5	- 64.5	.002215	2.39
	3.2878	.9522	45.3	- 48.6	•002455	2.52
	3.2722	-5190	62.7	- 59.3	.002278	4.48
	3.2683	.1990	15.0	-0	.002512	• 32
222 54	3.2683	.0078	14.5	15.9	.002512	•27
222.50	2.1652	1.3632	179.8	- 11.3	.002417	39.08
	2.1652	1.0229	143.3	- 10.2	.002168	22.27
	2.1572	•5473	137.1	8	•002507	23.58
	2.1373	•2726	142.6	- 15.9	.002706	27.52
	2.1333	.0060	137.1	•0	.002706	25.45
	2-5771	1.3294	155.2	10-2	.002436	29.36
	2.5652	-9F11	160.7	~ 15.6	-002341	30.21
	2.5433	•5353	135.5	4.1	.002207	20.27
	2.5393	-2488	157.0	- 3.6	-002857	35.23
	2.5552	.0299	158.7	. 7	-002857	35.98
	2.8876	1.3035	143.1	1.6	-002185	22.36
	2.8955	.9214	156.0	- 7.2	.002484	30.22
	2-8876	.5353	151.1	- 13.5	.002317	26.46
	2.8915	-2050	145.3	- 10.1	.002781	29.34
	2.8915	-0020	143.0	•0	.002781	28.43
	3.2955	1.2517	129.7	- 4.3	.002185	18.37
	3.2856	.9174	143.3	- 10-2	. 002484	25.51
	3.2697	•4995	153.1	3.7	•002317	27.17
	3.2537 3.2537	•2050 •2050	152.9	- 1.5	.002781	32.48
	306331	.0060	148.9	- 1.5	.002781	30.64

Table B-III. Rear-Lower Grid Calculations - Model 35 (Continued)

TIME	x	Y	ť	THETA	DENSITY	Q
MICROSEC	INCHES	INCHES	FT/SEC	DEGREES	SLUGS/CUFT	LB/SQFT
264.00	2.3239	1.3502	51.4	- 13.5	.002298	3.03
	2.3161	.9990	34.5	- 10.0	.002277	1.35
	2.3044	.5561	29.1	- 15.9	.002454	1.04
	2.3005	.2498	50.1	28.6	.002776	3.49
	2.3005	.0039	48-1	- 4.8	-002776	3.21
	2.7415	1.3502	63.7	- 57.8	.002374	4.62
	2.7259	.9795	40.2	- 5.7	.002266	1.83
	2.6849	•5580	62.4	- 39.8	.002197	4.28
	2.6810	.2693	51.2	- 38.7	•002364	3.10
	2.6829	.0039	36.8	- 49.4	.002364	1.60
	3.0498	1.3346	65.2	- 40.0	-002179	4.64
	3.0537	.9405	30.0	•0	•002543	1.14
	3.0459	•5327	55 • 1	- 46.5	.002219	3.37
	3.0420	-2244	36.7	- 29.4	. 002610	1.76
	3.0420	.0039	36.8	12.5	.092610	1.77
	3.4361	1.2859	50.1	-113.5	.002179	2.74
	3.4283	.9268	54.1	- 94.2	•002543	3.72
	3.4244	.5288	24.4	- 33.7	.002219	•23
	3.4205	.1951	48.8	- 55.0	.002610	3.11
	3,4166	.0039	28.6	- 12.1	.002610	1.07
305.50	2.2149	1.3512	94.1	- 12.0	•002650	11.74
	2.1990	1.0169	88 • 2	2.5	.002014	7.84
	2.1851	.5393	97.0	3.1	.002638	12.40
	2.1811	. 2965	103.8	31.9	.002670	14.39
	2.1811	.0020	88.2	- 2.5	•002670	10.39
	2.6109	1.2756	68.3	- 27.3	.002749	6.42
	2.6050	.9672	60.9	3.7	.002212	4.10
	2.5910	.4955	91.2	- 8.7	.002378	9.88
	2.5791	-2169	100.8	- 29.1	.003046	15.49
	2.5791	-C020	84.2	•0	003046 ،	10.81
	2.9373	1.2617	75.6	~ 53.4	.002632	7.53
	2.9254	.9214	65.1	- 21.2	.002716	5.76
	2.9254	.4955	73.8	- 21.8	.002378	6.49
	2.9234	.1871	75.6	- 16.6	.003322	9.50
	2.9274	.0100	72.5	- 1.5	.003322	8.73
	3.2756	1.2060	89.1	- 56.7	.002632	10.45
	3.2816	-8637	70 - 1	- 35.9	.002716	6.68
	3.2816	.4915	53.8	- 10.5	.002378	3.44
	3.2816	.1652	58.2	- 47.7	.003322	5.64
	3.2816	•0000	43 3	- 5.2	•003322	3.11

Table B-Ili. Rear-Lower Grid Calculations - Model 35 (Continued)

Model 35, Shot 334

7 1 44 5	v	Y	ឋ	THETA	DENSITY	Q
TIME	X INCHES	INCHES	FT/SEC	DEGREES	SLUGS/CUFT	LB/SOFT
MICROSEC	INCHES	14CHE 2	, 520			
1/7 00	2.4156	1.3307	15.2	- 23.2	.002689	.31
347.00	2.4039	1.0029	34.0	- 61.9	.002356	1.36
	2.4000	.5698	20.6	- 29.1	.002486	•53
	2.3883	.3044	42.4	- 98.1	.002737	2.46
	2.3383	.0000	14.1	-171.9	.002737	•27
	2.8020	1.3190	20.6	60.9	.002693	.57
	2.7863	.9834	26.0	- 90.0	.002287	.77
	2.7746	.5444	25.1	122.5	.002209	•75
	2.7688	.2205	6.3	-108.4	.002858	•06
	2.7668	.0039	8.5	135.0	.002858	.10
	3.0946	1.2742	29.1	-105.9	.0024	1.02
	3.1141	.9171	11.7	-121.0	.00276	•18
	3.1141	.5054	18.1	173.7	.002273	.37
	3.1141	.2029	28.8	123.7	.003319	1.38
	3.1141	.0020	20.1	-174.3	.003319	.67
	3.4849	1.2117	57.2	- 65.2	.002413	3.95
	3.4849	.8859	19.0	71.6	.002703	.49
	3.4771	.5100	8.2	166.0	.002273	.08
	3.4595	.1522	8.55	127.9	.003319	•86
	3.4595	.0000	18.4	139.4	.003319	•56
383.50	2.2289	1.3453	40.9	73.3	.002459	2.06
300430	2.2149	.9871	31.6	60.3	.002304	1.15
	2.2030	-5294	8.1	16.0	.002455	•08
	2.1751	.2547	19.3	- 66.0	.002924	•54
	2.1672	.2000	7.8	.0	.002924	.09
	2.6209	1.2935	94.4	-175.2	.002737	12.18
	2.6950	.9413	103.9	177.8	•002400	12.96
	2.5771	.5174	105.4	173.7	.002420	13.71
	2.5771	.2109	130.7	156.1	.003064	26.16
	2.5731	.0080	117.5	180.0	.003064	21.16
	2.9294	1.2338	90.8	166.3	.002829	11.65
	2.9144	.9114	123.7	156.7	.002618	20.04
	2.9075	.4975	123.0	157.5	.002487	18.80
	2.9075	.2109	117.9	164.6	.003004	20.87
	2.9075	.0080	113.6	179.0	•003004	19.40 14.18
	3.2975	1.1542	100.1	149.4	.002829	10.33
	3.2876	.8816	88.9	166.0	.002518	10.33
	3.2736	.4935	90.9	172.6	.002487	11.50
	3.2677	,1831	87.5	146.0	•003004	7.89
	3.2677	.0119	72.5	180.0	•003004	1 4 (7 7

Table B-III. Rear-Lower Grid Calculations - Model 35 (Continued)

Model 35, Shot 334

TIME	X	Y	IJ	THETA	DENSITY	Q
MICROSEC	INCHES	INCHES	FT/SEC	DEGREES	SLUGS/CUFT	LB/SQFT
430.00	2.4273	1.3698	23.4	20.0	•003768	1.03
430400	2.4195	1.0302	37.2	36.3	.003305	
	2.4020	•5776	45.6	43.3	.003706	2.28 4.03
	2.3961	-2868	41.2	14.0	•003838	3.26
	2.3961	•0000	35.0	31.0		
	2.7083	1.3112	21.2	48.8	.003838	2.34
	2.6829	.9873	21.2		-002861	•65
	2.6693	•9613 •5561	20.4	48.8	•002369	•53
	2.6478	•2732		11.3	.002306	.48
	2.6498	.0039	20 • 1 24 • 3	5.7 9.5	.002356	.48
	3.0068	1.2956			.002356	.70
	3.0000		42.0	90.0	•002306	2.03
	3.0010	.9659 .5522	10.2 44.2	78.7	.002487	.13
	3.0010	•3362 •2341		71.6	•002155	2.11
			21.2	- 48.8	.002430	•55
	3.0010 3.3990	.0039	15.2	- 23.2	•002430	.28
		1.2624	50-6	99.1	.002306	2.95
	3.3990	.9073	56.0	92.0	.002487	3.90
	3.3873	•5307	12.6	- 18.4	.002155	.17
	3.3873	.2010	21.6	33.7	.002430	.57
/71 60	3.3873	.0000	20.6	- 29.1	.002430	.51
471.50	2.2507	1.3532	21 - 1	- 21.8	.002591	.58
	2.2448	1.0090	28 - 3	- 56.3	.002390	.95
	2.2368	-5612	29.1	- 42.3	•002463	1.04
	2.2149	.2647	29.1	- 19.7	•003083	1.31
	2.1970	.0179	27.4	•0	.003083	1.16
	2.6348	1.3095	38.0	11.9	•002731	1.98
	2.6189	.9572	31.5	- 30.7	•002536	4.79
	2.5970	.5214	59.6	- 9.5	•002239	3.97
	2.5970	.2129	58.2	- 19.7	.003234	5.49
	2.5970	.0119	54.9	2.0	•003234	4.87
	2.9294	1.2756	60.9	3.7	•002766	5.12
	2.9214	.9214	70.0	- 17.9	.002555	6.26
	2.9214	•5393	62.3	- 24.1	•002319	4.49
	2.9214	.1950	64.0	- 27.3	.002879	5.89
	2.9214	.0020	57.4	7.9	.002879	4.74
	3.2915	1.2040	50.9	•0	.002766	3.59
	3.2856	.9373	44.7	15.3	.002555	2.55
	3.2856	-4896	26.6	17.1	.002319	.82
	3.2856	.1950	34.7	- 47.3	.002879	1.73
	3.2856	-0020	26.3	26.6	.002879	.99

Table B-III. Rear-Lower Grid Calculations - Model 35 (Continued)

Model 35, Shot 334

TIME	X	Y	IJ	THETA	DENSITY	Q
MICROSEC	INCHES	INCHES	FT/SEC	DEGREES	SLUGS/CUFT	LB/SQFT
513.00	2.4468	1.3620	22.0	- 00 0	003170	
713.00	2.4351	1.0068	32.0 29.5	- 90.0	•003178	1.62
	2.4234	•5580	40.4	151.7	•002992	1.30
~	2.4234	-2771		-171.5	•003300	2.69
	2.4234	.0000	31.3	153.4	.003671	1.80
	2.7454		18.8	-148.0	•003671	365
	2.7356	1-3190	32.0	93.6	•002462	1.26
	2.7278	•9561	26 • 3	98.7	•002376	.82
		•5463	12.8	141.3	•002250	.18
	2.7044	-2537	23.3	121.0	•002654	•72
	2.7044	•0059	21.6	146.3	•002654	•62
	3.0673	1,2995	31.6	108.4	.002361	1.18
	3.0673	.9444	19.7	114.0	.002649	-51
	3.0576	-5268	10.2	168.7	.002224	.12
	3.0576	-2049	11.3	135.0	.003210	.21
	3.0576	-0117	2.0	89.7	.003210	-01
	3.4498	1.2624	73.9	90.0	.002361	6.45
	3.4420	•9190	6.3	71.6	-00264 9	•05
	3.4127	.5385	56 • C	92.0	•002224	3,48
	3-4107	.1756	4.5	-116.6	.003210	•03
CC4 (#	3.4107	.0117	2.8	135.0	.003210	-01
554.50	2.2507	1.3214	92.2	2.4	•002683	11.39
	2.2189	1.0229	84-6	- 5.3	.002140	7.66
	2.1970	•5552	82.5	4.1	•002455	8.35
	2.1871	.2786	79.3	- 20.2	.002833	8.92
	2.1811	-0080	74.5	3.0	•002833	7.87
	2.6328	1.3413	102.5	- 6.5	.002716	14.28
	2.6149	.9831	77.3	8.7	.002448	7.32
	2.5871	•5294	69.6	- 9.7	•002288	5.54
	2.5851	.2328	72.9	- 6.2	₊ 003023	8.03
	2.5791	•0239	72.6	3.1	•003023	7.96
	2.9194	1.3055	84.3	- 2.7	.002389	8.50
	2.9134	.9393	72.6	- 3.1	.002600	5.85
	2.9114	•5413	71.0	6.3	•002099	5.28
	2.9134	.2030	77.5	20.7	•002865	8.60
	2.9214	-0040	72.9	- 6.2	. 002865	7.61
	5.2915	1.2776	109.9	- 11.3	.002389	14.42
	3.2876	•9433	78.0	- 11.6	•002600	7.91
	3.2836	.5453	111.5	-18.4	•002099	13.05
	3.2836	-1910	85.1	7.9	.002865	10.36
	3.2835	.0040	76.8	- 5.9	.002965	8.45

Table B-III. Rear-Lower Grid Calculations - Model 35 (Continued)

TIME	X	Y	U	THETA	DENSITY	0
MICPOSEC	INCHES	INCHES	FT/SEC	DEGREES	SLUGS/CUFT	LB/SQFT
596.00	2.5385	1.3659	51.8	27.6	.003199	4.30
37000	2.5190	.9990	49.3	- 31.8	.003063	3.73
	2.5054	.5639	73.5	- 47.2	.003225	8.72
	2.4976	.2498	49.4	- 14.0	.004026	4.92
	2.4976	.0039	48.1	- 4.8	.004026	4.66
	2.8468	1.3073	51.2	- 38.7	.002622	3.43
	2.8117	.9678	35.2	6.3	.002349	1.54
	2.7961	.5346	41.6	- 35.2	.002340	2.02
	2.7766	.2459	28.0	• 0	.002520	•99 .
	2.7766	.0098	41.6	- 35.2	.002520	2.18
	3.1512	1.2956	52.8	~ 29.5	.002280	3.18
	3.1395	•9405	40.0	•0	.002489	1.99
	3.1278	.5346	48.8	- 35.0	.002302	2.74
	3.1298	.2322	26.8	- 26.6	-002721	.98
	3.1298	.0039	38.0	- 3.0	.002721	1.97
	3.5571	1.2410	36.0	- 19.4	.002280	1.48
	3.5180	.9034	49.6	- 40.1	.002489	3.07
	3.5180	•5034	7.6.5	- 56.7	-002302	6.73
	3.4946	-1873	44.9	- 20.9	.002721	2,74
	3.4868	•0039	30.2	7.6	.002721	1.24
637.50	2.2965	1.3453	29.1	- 42.3	.002659	1.13
	2.2607	•9970	36 • 8	25.2	.002085	1.41
	2.2468	-5015	14.3	15.9	-002905	•30
	2.2348	-2667	24.5	61.4	.002865	•86
	2.2289	.0040	14.1	33.7	•002865	,29 17 01
	2.6726	1.3095	108.1	22.4	.002913 .002261	17.01 15.11
	2-6507	.9871	115.6	1.0	•002429	16.25
	2.6209	.5055 .2328	115.7 118.3	10•7 - 6•7	•002429	20.52
	2.6129	•0000	117.7	- 2.9	.002931	20.30
	2.6129 2.9652	1.2796	119.6	2.8	.002454	17.57
	2.9532	•9393	119.4	16.3	.002434	16.95
	2.9512	.5134	115.6	•0	-002248	15.01
	2.9373	-1910	113.6	- 15.0	2003063	19.76
	2.9592	.0020	139.7	- 1.0	•003063	18.44
	3.3254	1.2657	82.7	13.7	•002454	8.39
	3.3254	.9114	108.5	20.1	.002418	14.22
	3.3254	4816	87.5	15.6	•G02248	8.69
•	3.3254	.1751	110.1	- 5.1	•003063	18.58
	3.3134	.0080	117.6	- 1.0	.003063	21.17

Table B-III. Rear-Lower Grid Calculations - Model 35 (Continued)

Model 35, Shot 334

TIME	X	Y	IJ	THETA	DENSITY	0
MICROSEC	INCHES	INCHES	FT/SEC	DEGREES	SLUGS/CUFT	L8/SQFT
WICKO3EC	1 NUME 3	rache 3	F17350	DEGREES	360037 601 1	211/3411
679.00	2.5600	1.3463	18.8	148.0	.002536	•45
	2.5522	1.0146	18.0	90.0	.002356	•38
	2.5190	.5678	50.1	105.4	.002305	4.16
	2.5093	.2712	18.0	180.0	.002887	•47
	2.5093	.0117	10.8	-158.2	.002887	.17
	2.9463	1.3483	50.0	126.9	.002511	3.13
	2.9268	•9698	26.8	153.4	.002312	.83
	2.9093	.5561	45.6	113.2	.002125	2.21
	2.8937	.2322	17.1	159.4	.002788	•41
	2.8937	.0039	20.0	143.1	.002788	•56
	3.2702	1.3015	37.9	108.4	.002615	1.88
	3.2527	.9737	44.0	92.6	.002490	2.41
	3.2429	.5346	27.8	120.3	.002188	.84
	3.2390	•20°°	35.0	90.0	.002946	1.91
	3.2390	.002.	22.0	180.0	.002946	.71
	3.6371	1.2605	18.8	-148.0	.002615	.46
	3.6195	.9405	20.0	180.0	.002490	•50
	3.6020	•5268	33.9	135.0	.002188	1.26
	3.6039	-1776	41.7	-163.3	.002946	2.56
	3.6039	.0020	34.2	-173.3	.002946	1.72
720.50	2.2806	1.3552	150.4	171.8	.002727	30.85
	2.2607	1.0149	176.3	180.0	•002319	36.05
	2.2308	•5592	159.7	-173.7	•002453	31.26
	2.2169	.2667	152.8	179.3	.002894	33.79
	2.2189	.0000	147.3	-176.2	.002894	31.37
	2.5428	1.3493	157.5	-169.2	•002663	33.05
	2.6269	•9990	151.0	-177.8	.002198	25.04
	2,6030	.5473	156.7	179.3	.002270	27.89
	2.5970	.2388	154.5	164.8	•002689	32.08
	2.5970	.0119	148 - 9	-178.5	. 002589	29.82
	2.9532	1.3154	188.1	-179.4	.002595	45.90
	2.9512	.9831	183.5	-163.9	.002516	42.37
	2.9373	.5373	165.5	180.0	.002312	32.06
	2.9373	.2269	152.9	176.6	.003049	40.45
	2.9373	.0020	162.6	179.3	.003049	40.31
	3.3095	1.2557	180.2	-179.4	.002595	42.16
	3.3055	.9114	194.7	-159,4	.002516	47.67
	3.3015	•5055	176.2	-171.7	.002312	35.90
	3.2856	•1632	176.6	176.8	.003049	47.53
	3.2796	. 0040	176.3	-179.4	•003049	47.39

Table B-III. Rear-Lower Grid Calculations - Model 35 (Continued)

			u	THETA	DENSITY	Q
TIME	X	γ	FT/SEC	DEGREES	SLUGS/CUFT	LB/SQFT
MICROSEC	INCHES	INCHES	PI/SEC	DEGNEES		
	0 (117	1.3678	52.3	43.5	.002462	3.37
762.00	2.4117	1.0146	42.0	- 25.3	.002253	1.99
	2.3766	.5502	53.8	- 21.8	.002533	3.67
	2.3610	.2732	48.4	38.3	.002580	3.02
	2.3571	.0020	32.2	7.1	.002580	1.34
	2.3629	1.3190	26.9	- 42.0	.002665	•96
	2.7922	.9639	31.2	- 39.8	-002616	1.27
	2.7766	•5580	45.1	- 12.5	.002379	2.42
	2.7532	.2732	19.7	24	.002586	.50
	2.7454	.0000	10.0	.0	.002586	.13
	2.7454	1.2995	12.2	- 80.5	.002217	.16
	3.0829	.9229	45.6	- 74.7	.002852	2.96
	3.0771	•5346	26.3	- 8.7	.002414	.83
	3.0771 3.0771	.2127	26.7	- 13.0	.002910	1.03
	-	.0039	26.1	4.4	.002910	•99
	3.0771 3.4576	1.2585	27.2	17.1	.002217	.82
	3.4380	.8722	16.1	- 7.1	.002852	.37
	3.4283	.5015	28.3	45.0	.002414	•96
	3.4283	.1873	31.6	34.7	.002910	1.45
	3.4283	.0000	32.0	- 3.6	.002910	1.49
202 50	2.3184	1.3910	43.0	- 24.2	.002630	2.43
803.50	2.2985	.9970	67.6	- 16.9	.002408	5.49
	2.2806	.5393	92.5	- 36.4	.002845	12.17
	2.2547	.2965	79.6	- 9.9	.002862	9.06
	2.2507	.0040	72.5	- 1.5	.002862	7.52
	2.6627	1.3313	49.9	45.0	.002666	3.32
	2.6507	.9791	49.9	25.6	.002440	3.04
	2.6468	.5373	95.6	- 44.2	.002360	10.78
	2.6149	.2468	83.2	- 46.9	.002596	8.98
	2.6070	.0119	56.8	•0	.002596	4.19
	2.9552	1.3035	98.7	6.8	.002354	11.46
	2.9632	.939?	92.7	13.4	.002728	11.71
	2.9632	.5333	89.5	- 23.2	.002323	9.31
	2.9632	.2209	79.6	- 9.9	.002935	9.29
	2.9632	.0040	80-3	- 1.4	.302935	9.47
	3.3353	1.2637	71.3	- 15.9	.002354	5.99
	3.3214	.9095	80.0	21.5	.002728	8.74
	3.3214	.5254	73.2	- 15.5	.002323	6.22
•	3.3114	.1811	65.7	10.3	.002935	6.34
	3.3114	.0020	64.6	•0	.002935	6.13

Table B-III. Rear-Lower Grid Calculations - Model 35 (Continued)

						_
TIME	X	Υ	U	THETA	DENSITY	Q
MICROSEC	INCHES	INCHES	FT/SEC	DEGREES	SLUGS/CUFT	LB/SUFT
845.00	2.4507	1.3502	30.5	- 58.4	.02506	1.17
	2.4410	.9951	14.1	- 3.1	.002044	.20
	2.4351	.4956	14-1	- 8.1	.002856	•29
	2.4351	.2595	33.1	- 65.0	.003125	1.71
	2.4351	.0000	20.4	- 11.3	.003125	.65
	2.8273	1.3541	16.5	- 14.0	.002243	-30
	2.8215	9854	11.3	- 45.0	.002030	.13
	2.8215	.4917	16.5	-104.0	.002368	•32
	2.8020	.2127	27.8	- 59.7	.002849	1.10
	2.8020	.0000	15.1	7.1	.002849	.37
	3.1805	1.3112	34.5	10.0	.002552	1.52
	3.1568	.9444	8.2	- 76.0	.002503	•09
	3.1590	.4995	20.6	- 29.1	.002730	•58
	3.1551	.1990	15.2	- 23.2	.003037	.35
	3.1571	.0020	14.1	- 8.1	.003037	.30
	3.5259	1.2390	17.0	135.0	.002552	•37
	3.5122	.9015	16.0	90.0	.002603	•33
	3.4985	.4820	26.0	- 90.0	.002730	1.07
	3.4927	-1 90	10.2	- 11.3	.003037	.16
	3.4927	.0000	10.2	- 11.3	.003037	.lo
886.50	2.3343	1.3652	120.0	26.1	.002724	19.63
	2.3124	.9950	110.5	37.1	.002465	15.05
	2.2945	•5373	98.4	45.8	.002739	13.25
	2.2687	.2657	76.2	25.9	.003194	9.28
	2.2706	.0000	59.0	6.5	.003194	7.61
	2.6786	1.3274	12.4	- 71.6	.002539	•19
	2.6587	.9711	21.6	95.2	.002353	•55
	2.6428	.5214	77.0	104.7	.002275	6.74
	2.6289	.2229	82.5	94.1	.002788	9.49
	2.6229	.0139	4.4	116.6	.002788	•03
	2.9891	1.3095	153.0	-177.1	.002479	29.02
	2.9552	.9313	163.1	164.0	.002655	35.30
	2.9811	.5234	173.2	158.1	.002512	37.67
	2.9771	.2149	155.4	167.8	.002999	41.52
	2.9771	.0020	147.0	177.7	.002999	32.43
	3.3234	1.2756	159.0	157.5	.002479	31.33
	3.3214	.9254	159.5	155.3	•002655	33.79
	3.3214	.4975	144.9	166.7	.002512	26.39
	3.3214	.1791	141.1	180.0	.002999	29.84
-	3.3214	-0000	141.1	178.4	.002999	29.86

Table B-III. Rear-Lower Grid Calculations - Model 35 (Continued)

TIME	X	Y	U	THETA	DENSITY	Q
MICROSEC	INCHES	INCHES	FT/SEC	DEGREES	SLUGS/CUFT	LB/SQFT
928.63	2.5580	1.4029	72.0	109.4	.003554	9.22
. 20000	2.5288	1.0615	86.1	111.8	.018500.	10.41
	2.5034	•5659	48.0	106.5	.003451	3.98
	2.5034	.2927	65.1	79.4	.003192	6.75
	2.5034	.0078	12.8	38.7	.003192	•26
	2.8312	1.3424	62.7	99.2	.004554	8.96
	2.8195	1.0066	75.9	90.0	.003862	11.13
	2.8020	.5659	76.0	87.0	.003991	11.53
	2.7961	.2946	32.0	93.6	.003943	2.02
	2.8000	.0039	4.5	- 26.6	.003943	.04
	3.0283	1.3034	21.5	111.8	.002727	•63
	3.0107	.9893	56.0	88.0	.002450	3.84
	2.9990	.5639	63.5	118.2	.002321	4.68
	2.9932	-2341	53.8	121.3	.002749	3.98
	3.0107	.0078	30.0	180.0	.002749	1.23
	3.3795	1.2995	65.1	72.1	.002727	5.78
	3.3678	.9678	56.1	93.9	.002450	4.13
	3.3580	.5151	28.3	98.1	.002321	.93
	3.3522	.1990	26.7	103.0	.002749	.98
	3.3522	.0039	5.0	180.0	.002749	.05
969.50	2.3104	1.4328	122.7	171.7	-002648	19.95
	2.2806	1.0746	130.0	-173.9	.002222	18.78
	2.2806	.5831	123.7	176.4	.002513	19.98
	2.2806	.3303	121.6	-177.2	.002760	20.45
	2.2806	.0080	113.8	-177.0	-002766	17.90
	2.6687	1.3891	135.6	169.2	.002703	24.86
	2.6587	1.0468	138.3	-172.7	.002465	23.56
	2.6468	.5970	124.7	-171.9	.002288	17.78
	2.6269	.2547	140.2	-153-4	•002565	25.20
	2.6269	.0119	129.3	180.0	.002565	21.44
	2.9811	1.3294	151.7	174.1	.002519	28.97
	2.9872	.9871	133.9	-174.1	-002486	22.29
	2.9512	•5791,	128.9	-160.5	.002304	19.13
	2.9493	.2607	118.3	-173-3	-002377	16.65
	2.9473	•0020	133.3	-177.5	.002377	21.13
	3.3433	1.3373	135.3	-177.5	-002519	23.06
	3.3174	•9831	149.3	-160.9	.002486	27.71
	3.3174	.5254	131.4	-177.4	.002304	19.89
	3.3154	-2050	135.2	-179.2	-002377	21.72
	3.3154	-0900	133.2	-179.2	-002377	21.10

Table B-III. Rear-Lower Grid Calculations - Model 35 (Continued)

Model 35, Shot 334

- 4 .4	v	Y	U	THETA	DENSITY	Q
TIME	INCHES	INCHES	FT/SEC	DEGREES	SLUGS/CUFT	LB/SQFT
MICROSEC	1 Arues	THUTTES	, 500	000		
1011 00	2.4371	1.4205	38.8	- 11.9	.003311	2.49
1011.00	2.4000	1.0478	92.0	- 55.6	.002916	12.34
	2.3805	.5737	29.1	- 15.9	.003133	1.33
	2.3824	-2868	40.8	- 78.7	.003708	3.08
	2.3902	.0020	10.0	- 36.9	.003708	.19
	2.6985	1.3678	38.4	- 9.0	.004260	3.15
	2.6829	.9893	29.1	- 15.9	.003685	1.56
	2.6790	.5483	47.5	-104.6	.003802	4.29
	2.6712	.2322	24.0	- 90.0	.004495	1.29
	2.6712	.0039	4.0	- 89.3	.004495	.04
	2.6780	1.3190	21.5	68.2	.002423	•56
	2.8780	.9756	18.4	- 40.6	.002557	.43
	2.8780	.5210	55.3	- 77.5	.902547	3.89
	2.8761	.2205	39.7	- 49.1	.002867	2.25
	2.8780	.0020	28.0	4.1	.002867	1.13
	3.2449	1.2937	12.2	170.5	.002423	.18
	3.2273	.9190	52.3	- 83.4	.002557	3.50
	3.2273	.5093	32.0	85.4	.002547	1.31
	3.2176	.1971	14.1	- 81.9	.002867	•29
	3.2195	.0020	15-1	82.9	.002867	•37
1052.50	2.3483	1.4249	40.4	129.1	.002503	2.04
[0]2.30	2,3323	.9990	12.5	108.4	.002515	.19
	2.3085	.5751	12.5	141.3	.002746	.22
	2.2886	.2905	52.7	-121.3	.003129	4.35
	2.2886	.0020	33.4	176.6	.003129	1.74
	2.7065	1.3831	13.6	161.6	.002771	.48
	2.6866	1.0388	22.8	121.0	.002205	•58
	2.6348	.5512	22.3	127.9	.002280	•57
	2.6269	.2308	16.9	144.5	.002639	.37
	2.6269	.0080	11.9	170.5	.002639	.19
	2.9891	1.3493	25.1	77.0	.002330	.89
	2.9811	.9751	17.6	180.0	.002582	-42
	2.4632	.5254	1.1 - 1	135.0	.002338	.14
	2.9751	.2308	4 . 4	-153.4	.002942	.03
	2.9751	.0040	5.9	180.0	.002942	.05
	3.3313	1.3393	18.5	58.0	.002330	.40
	3.3234	.9313	34.7	106.4	.002682	1.62
	3.3194	.5572	29.8	113.2	.002338	1.04
	3.3174	.1910	13.9	-171.9	.002942	-28
	3.3174	.0159	11.9	170.5	.002942	.21

Table B-III. Rear-Lower Grid Calculations - Model 35 (Continued)

TIME	X	Y	U	THETA	DENSITY	Q
MICROSEC	INCHES	INCHES	FT/SEC	DEGREES	SLUGS/CUFT	LB/SQFT
1094-00	2.4117	1.4517	8.9	- 63.4	.003306	.13
	2.3961	1.0595	40.0	92.9	.002956	2.37
	2.3707	.5815	20.5	- 29.1	.002802	.59
	2.3551	.2420	57.5	- 20.3	.003775	6.25
	2.3571	.0039	54.1	4.2	.003775	5.52
	2.6810	1.3737	27.8	-149.7	.003990	1.54
	2.6712	1.0088	55.0	-109.1	.003714	5.61
	2.6654	•5659	36.0	- 33.7	.003560	2.31
	2.6576	.2420	22.0	•0	.004275	1.03
	2.6595	.0759	14.1	- 8.1	.004275	.43
	2.8839	1.3444	37.3	-105.5	.002350	1.64
	2.8605	.9756	12.2	99.5	.002549	.19
	2.8702	.5288	20.9	73.3	.002444	.53
	2.8722	.2185	25.6	-128.7	.002976	.97
	2.8722	•0020	16.1	-172.9	.002976	•39
	3.2546	1.3093	58.3	- 95.9	.002350	3.99
	3.2176	•9522	15.2	156.8	.002549	-30
	3.2156	.5366	43-0	-111.8	.002444	2.26
	3.2039	-1951	28.6	155.2	-002976	1.22
	3.2078	.0039	27.2	-162.9	.002976	1.10
1135.50	2.3522	1.4169	157.3	- 5.0	.002683	33.21
	2.3303	1.0388	151.2	- 3.7	.002474	28.26
	2.3264	• 5652	159-3	4.9	.002895	36.72
	2.3423	-2706	167.9	7.4	.003652	51.48
	2.3423	.0060	166.6	2.0	.003652	50.69
	2.6826	1.3692	221.5	1.5	•002684 003350	65.82
	2.6687 2.6647	.9871 .5313	217.5 219.4	1.0	.002359 .002428	55.79 58.45
	2.6488	•2308	211.8	.0 2.7	.003028	67.92
	2.6408	•0060	201-8	- •6	•003028	61.65
	2.9791	1.3134	333.2	- 2.0	.003028	152.46
	2.9791	•9871	344.8	- 2.0	.002140	159.91
	2.9692	.5453	312.9	5.4	.002490	121.86
,	2.9592	.2109	301.7	•4	.003015	137.24
	2.9592	.0020	303.7	•0	.003015	139.02
	3.3254	1.2816	308.0	- 2.9	.003015	130.21
	3.3095	.9373	327.4	2.4	.002690	144.23
	3.3035	.5174	329.3	2.0	.002490	135.02
	3.2915	•2030	321.3	•0	.003015	155.63
	3.2915	.0080	319.5	1.8	.003015	153.88
	· 					

Table B-III. Rear-Lower Grid Calculations - Model 35 (Continued)

TIME	x	Y	J	THETA	DENSITY	Q
MICROSEC	INCHES	INCHES	FT/SEC	DEGREES	SLUGS/CUFT	LB/SQFT
1177 00	2 5/70	1 (200	7/ 7	74 6	002477	7.46
1177.00	2.5678	1.4380	74.7	74.5	.002677	7.21
	2.5463	1.0498	76.3	84.0	.002474	.10
	2.5288	.5951	8.9	- 26.6	.002443	
	2.5210	.2634	61.7	114.9	.003151	5.99
	2.5229	.0098	36 • 8	130.6	.003151	2.14
	2.9015	1.3795	59.4	78.4	.002530	6.09
	2.8878	1.0127	70.4	72.0	.002446	9.99
	2.8839	.5659	49.3	68.6	.002415	2,94
	2.8683	-2517	51.9	67.4	-002864	3.86
	2.8605	.0039	28.6	12.1	.002364	1.17
	3.2156	1.3327	78.3	84.1	.002663	8.17
	3.2039	.9776	23 - 4	70.0	•002624	•72
	3.1805	•5580	30.5	31.6	.002183	1.02
	3.1727	•2205	49.5	46.6	.002882	3.5?
	3.1746	.0020	34.0	- 3.4	•002882	1.67
	3.5610	1.2937	75 • 8	71.6	•002663	7.65
	3.5434	•9659	50.9	48.2	•002624	3.40
	3.5434	.5483	56.0	55.2	.002183	3.42
	3.5239	.1951	43.6	15.9	•002882	2.74
	3.5259	.0137	42.4	- 8.1	.002882	2.59
1218.50	2.3721	1.4886	57.7	- 9.8	.002708	4.50
	2.3383	1.1144	95.7	35.0	.002100	9.61
	2.3343	.5612	88.4	3.8	.002965	11.57
	2.3164	•3264	83.8	22.8	.002757	8.99
	2.3184	.0338	73.1	- 7.7	.002757	7.38
	2.6965	1.4368	39.3	12.7	. 002667	8.60
	2.6965	1.0726	84	28.4	.002286	7.76
	2.6826	.5771	51.5	22.5	.002425	4.58
	2.6687	-2786	67.6	15.9	.002482	5.66
	2.6687	.0119	76.4	- 1.5	.002482	7.25
	2.9871	1.3910	64.1	23.4	.002286	4.69
	2.9871	1.0090	74.6	23.2	.002579	7.18
	2.9950	-5612	92.8	7.3	,002391	10.30
	2.9930	.2468	102.2	- 12.2	.002588	13.52
	2.9930	.0000	98.0	1.1	•002588	12.42
	3.3493	1.3532	63.5	- 8.9	.002286	4.60
	3.3433	.9751	74.6	- 13.7	.002579	7.18
	3.3353	.5632	64.2	- 12.3	.002391	4.92
	3.3333	.2149	74.6	- 13.7	•002588	7.20
	3.3333	.0020	73.4	- 9.2	.002588	6.98

Table B-III. Rear-Lower Grid Calculations - Model 35 (Continued)

TIME	X	Y	U	THETA	DENSITY	Q
MICROSEC	INCHES	INCHES	FT/SEC	DEGREES	SLUGS/CUFT	LB/SQFT
1260.00	2.6244	1.4283	23.4	160.0	-002961	.81
	2.6244	1.1044	14.5	- 15.9	.002438	.26
	2.6166	.6010	55.5	81.9	.002683	4.28
	2.5951	.2946	21.5	21.8	.002823	•65
	2.5951	.0000	31.3	- 63.4	.002328	1.38
	2.9795	1.3971	34.5	- 80.0	.002724	1.62
	2.9600	1.0517	6.3	- 18.4	.002242	• 04
	2.9405	.5893	12.8	38.7	.002048	.17
	2.9327	.2712	18.4	12.5	.002639	•45
	2.9366	.0020	19.0	- 18.4	.002639	•47
	3.2741	1.3580	10.0	- 53.1	.002619	.13
	3.2722	1.0068	30.6	78.7	.002677	1.25
	3.2722	•5698	16.1	97.1	.002252	•29
	3.2722	.1990	8.0	- 89.9	.003362	.11
	3.2722	"0039	16.0	90.0	.003362	•43
	3.6234	1.2839	10.8	68.2	.002619	.15
	3.6156	.9483	34.2	83.3	.002677	1.57
	3.6059	.5346	12.6	- 71.6	.002252	.18
	3.5961	.1776	43.6	-105.9	.003362	3.20
	3.5980	.0020	12.2	-170.5	.003362	.25
1301.50	2.3502	1-4965	101.1	121.5	.002723	13.93
	2.3522	1.1194	54.3	-154.4	.002266	3.34
	2.3423	.6169	47.0	180.0	.002704	2.99
	2.3363	.3343	32.8	162.6	.002539	1.37
	2.3323	•0060	31.6	172.9	.002539	1.27
	2.7025	1.4030	54.3	154.4	.002941	4.34
	2.7025	1.0706	45.1	-177.5	•002323	2.36
	2.6925	. 5851	49.6	-161.6	.002436	2.99
	2.6866	-2826	41.2	-177.3	.002700	2.29
	2.6866	-0060	41.2	-177.3	.002700	2.29
	2.9930	1.3831	59.1	-174.3	.002502	4.36
	2.9930 2.9930	1.0388 .5771	68.6	180.0 -176.3	.002396 .002225	5.63 4.12
	2.9930	•2388	60.9 61.9	169.0	.002223	5.96
•	2.9930	•2300 •0159	58.8	-178.1	.003113	5.38
	3.3532	1.3632	76.8	174.1	.002502	7.38
	3.3473	1.0090	63.6	178.4	.002396	5.64
	3.3393	•5512	74.3	161.6	.002346	5.0 4 6.15
	3.3214	.1731	56.8	178.0	.003113	5.03
	3.3214	.0000	58.8	180.0	.003113	5.38
	343617	£ 0000	20.0	TOULD	*003113	7.50

Table B-III. Rear-Lower Grid Calculations - Model 35 (Continued)

TIME	X	Y	บ	THETA	DENSITY	Ç
MICROSEC	INCHES	INCHES	FT/SEC	DEGREES	SLUGS/CUFT	L6/SQFT
1343.00	2.5717	1.5141	46.6	43.3	.002440	2.65
	2.5756	1.0810	34.1	20.6	.002449	1.43
	2.5698	.6010	38.2	6.0	.002833	2.06
	2.5639	.3044	54.4	- 36.0	.002882	4.20
	2.5639	.0039	47.0	12.3	.002882	3.19
	2.9307	1.4205	55.3	49.4	-002794	4.27
	2.9151	1.0498	26.8	26.6	•002336	.84
	2.8937	•5737	26.1	57.5	.002253	.76
	2.8917	.2693	25.0	- 28.6	.002713	•85
	2.8956	•0000	24.1	24.4	-002713	•79
	3.2156	1.3522	25.4	45.0	.002687	-87
	3.2039	1.0068	20.6	- 29.1	·002776	.59
	3.2117	•5659	21.6	33.7	.002257	•53
	3.2117	-2107	18.4	12.5	.003207	• 54
	3.2137	.0020	19.7	- 24.0	.003207	-62
	3.5473	1.2917	8.9	26.6	.002687	.11
	3.5473	•9502	52.3	- 83.4	.002776	3.80
	3.5356	-5580	26 • 1	- 57.5	-002257	.77
	3.5395	.1795	66.2	61.1	•003207	7.02
_	3.5395	.0020	32.2	7.1	.003207	1.56
1384.50	2-3841	1.5284	103.1	-171-3	.002560	13.60
	2.3841	1.1224	114.7	146.9	.002379	15-63
	2.3801	.6209	78.9	165.6	•002592	8.06
	2.3801	.3025	81.8	163.3	.003036	10.16
	2.3781	.0159	78.4	180.0	.003036	9.32
	2.7383	1.4448	128.6	172.1	.002818	23.29
	2.7264	1.0826	117.4	165.5	.002407	16.58
	2.7065	-6070	73.4	170.8	.002289	6.17
	2.7085	-2706	72.5	-178.5	.002791	7.34
	2.7085	-0159	76.5	177-1	.002791	8.17
	3.0109	1.4010	132.1	144.7	.002303	20.09
	3.0109	1.0289	99.8	164.1	.002600	12.96
	3.0109	.5891	107.4	165.2	.002444	14.09
	3.0109	.2428	114.4	142.0	.002562	16.77
	3.0109	.0080	92.2	177.6	.002562	10.88
	3.3612	1.3672	110.9	136.4	.092303	14.15
	3-3532	-9572	101.1	158.4	.002600	13.29
	3.3532	•5294	90.9	-172.6	,002444	10.09
	3,3532	.2308	105.0	166.0	.002562	14.12
	3.3532	.0040	101.9	178.9	.002562	13.30

Table B-III. Rear-Lower Grid Calculations - Model 35 (Continued)

Model 35, Shot 334

7145	X	Y	U	THETA	DENSITY	Q
TIME	INCHES	INCHES	FT/SEC	DEGREES	SLUGS/CUFT	LB/SQFT
MICROSEC	fidetica					
1/2/ 00	2.4702	1.4985	73.5	112.4	.002940	7.93
1426.00	2.4800	1.1434	69.8	113.6	.002369	5.77
	2.4937	.6205	36.5	80.5	.002742	1.82
	2.4859	.3278	75.5	123.3	.002762	8.08
	2.4859	.0039	60.1	-176.2	.002762	4.98
	2.8039	1.4380	54.4	119.7	.002513	5.22
	2.8020	1.0790	19.7	114.0	.002350	.46
	2.8215	.5854	12.2	9.5	.002551	.19
	2.8195	.2673	50.0	106.3	.002538	3.17
	2.8195	.0039	31.0	-165.1	.002538	1.22
	3.1083	1.4283	50.5	108.4	.002284	2.92
	3.1083	1.0341	64.5	106.2	.002561	5.33
	3.1083	.5932	32.5	100.6	.002529	1.34
	3.1220	.2810	30.6	101.3	.002690	1.26
	3.1220	.0059	6.3	71.6	-002690	-05
	3.4673	1.3678	81.9	91.4	.002284	7.67
	3.4537	-9873	72.4	96.3	.002561	6.71
	3.4459	.5463	46.8	110-0	.002529	2.77
	3,4380	.2049	21.5	-158.2	.002590	.62 .56
	3.4380	.0039	20 • 4	-168.7	.002690	2.66
1467,50	2.3562	1.5960	47.2	41.6	.002389	1.33
	2.3562	1.1861	34.7	42.T	.002209	1.39
	2.3861	.6567	31.9	10.6	.002729	1.26
	2.3383	•3662	33.4	- 3.4	.002265	1.26
	2.3184	.0119	33.3	.0	.002265 .002712	5.55
	2.7065	1.5005	64.0	- 40.0	.002/12	3.01
	2.7184	1.1005	49.9	25.6	.002412	2.71
	2.7184	•6090	46.7	57.0	.002451	2.75
	2.6945	.3184	49.4	56.3	.002251	.97
	2.6786	.0080	29.4	•0 26 0	.002238	1.67
	2.9950	1.4488	38 • 6	- 24.0 8.7	.002439	.81
	2.9930	1.0905	25.8	42.7	.002336	1.40
	3.0050	.6209	34.7	- 75.1	.002596	10.80
	3.0050	.2726	91.2	4.8	.002596	.72
	3.0129	.0139	23.6 20.5	16.7	.002238	.47
	3.3592	1.4488	27.7	45.0	.002439	.94
	3.3453	1.0289	41.3	53.6	.002336	1.99
-	3.3373	.5731 .2229	34.3	31.0	.002596	1.52
	3.3333	.0000	35.3	.0	.002596	1.61
	3.3333	•0000	3303		, , , , , , , , , , , , , , , , , , ,	

Table B-III. Rear-Lower Grid Calculations - Model 35 (Continued)

TIME	x	Y	U	THETA	DENSITY	0
MICROSEC	INCHES	INCHES	FT/SEC	DEGREES	SLUGS/CUFT	LB/SQFT
1509.00	2.5054	1.5298	59.4	- 70.3	.003016	5.32
1707200	2.5054	1.1668	46.6	- 43.3	.002314	2.52
	2.5249	.6263	43.0	- 68.2	.002772	2.57
	2.5190	.3259	47.5	- 14.6	.002629	2.96
	2.5190	.0039	61.9	•0	.092629	5.04
	2.8527	1,3971	47.2	-126.4	.002977	3.31
	2.8468	1.1005	30.0	126.9	.002527	1.14
	2.8468	.6244	26.3	-171.3	.002198	.76
	2.8468	.3083	54.5	-118.4	.002838	4.22
	2.8488	.0039	38.8	-168.1	.002838	2.14
	3.1434	1.4127	46 • 6	- 99.9	.002460	2.68
	3.1337	1.0380	39.3	- 75.3	.002707	2.09
	3.1337	.6166	30.0	-126.9	.002103	, 94
	3.1454	.1932	15.1	172.9	.003084	J40
	3.1454	.0078	27.8	-149.7	.003084	1.19
	3.4968	1.3737	70.8	-106.4	.002460	6.17
	3.4732	-1.0068	19.7	-156.0	.002707	•52
	3.4673	.5815	35.0	-123.7	.002103	1.36
	3.4673	-2224	27.8	120.3	.003084	1.19
	3,4732	.0039	14-5	164-1	.003084	•33
1550.50	2.3761	1.5403	84.4	94.0	.003121	11.13
	2.3900	1.1542	50-1	59.4	.002453	3.07
	2-4020	-6169	24.2	76.0	.003198	.94
	2.3841	•3542	15.3	39.8	.003210	•38
	2.3801	.0119	11.8	.0	.003210	•22
	2.6786	1.4627	105.9	87.9	.002782	15.59
	2.7005	1.1244	33.5	69.4	.002228	1.25 .45
	2.6925	-6050	19.6	- 53.1	.002348	1.57
	2.6687	.2706	37.2	- 71.6	.002268	-11
	2.6408	.0000	9.8	.0	.002268 .002601	•40
	2.9871	1.4030	17.6	90.0	.002518	2.05
	3.0030	1.0527	40.4	67.2 - 70.0	.002516	2.78
	2.9871	.5970	45.9	- 70.0 87.2	•002369	7.66
	2.9991	.2746	30.4 5.5	- 45.0	.002369	•04
	2.9891	.0000	7.8	- 45.0 - 89.9	.002601	.08
	3.3393	1.3811 1.0209	15.8	- 82.9	.002518	.31
	3.3274	.5433	18.5	- 58.0	•002518	.45
	3.3174	• 2468	21.9	63.4	.002369	.57
	3.3194 3.3194	• 2468 • 0040	2.8	45.9	.002369	.01
	3. 3174	• 0040	6.0	7703	•002307	

Table B-III. Rear-Lower Grid Calculations - Model 35 (Continued)

TIME	x	Y	j	THETA	DENCITY	0
MICROSEC	INCHES	INCHES	FT/SEC	DEGREES	DENSITY SLUGS/CUFT	Q LB/SQFT
	INOTICS	THUNE 3	F 17 3EC	DEGREES	31.003/CUF1	CD/SWFI
1592.00	2.4995	1.6137	111.8	108.8	•002620	16.38
	2.5307	1.2098	38.6	111.3	.002193	1.63
	2.5307	-6498	59.6	76.4	.002608	4.63
	2.5307	•3356	15.6	50.2	.002748	•33
	2.5307	.0039	7.2	123.7	.002748	•07
	2.8566	1.5024	40 - 0	53.1	.002765	2.21
	2.8585	1.1317	24.7	14.0	-002185	.67
	2.8585	.6088	52.8	60.5	.002564	3.57
	2.8585	.2732	57.1	53.5	•002640	4,31
	2.8585	.0039	104.0	2.2	.002640	14.27
	3.1434	1.4302	48.3	82.9	.002554	2.98
	3.1493	1.0751	34.4	54.5	.002550	1.51
	3.1493	•5737	40.2	- 26.6	•002635	2.13
	3.1493	.2732	39.4	24.0	.002451	1.90
	3.1493	•003 9	35.0	3.2	.002451	1.59
	3.4868	1.3659	25.6	-128.7	•002554	.84
	3.4751	.9912	2.0	89.7	.092550	.01
	3-4771	•5659	60.8	80.5	.002635	4.87
	3.4771	-2420	11.3	45.0	.002451	.16
	3.4751	.0059	10.0	36.9	-002451	.12
1633.50	2.3403	1.6458	80.3	167.3	.002408	7.77
	2.3761	1.1900	54.9	-178.0	.002415	3.64
	2.4159	.6746	52.7	148.7	.002809	3.91
	2.3940	.3662	59.7	139.0	•002430	4.33
	2.3761	-0179	45.1	180.0	.002430	2.47
	2.7025	1.4945	80.8	166.0	.002704	8.82
	2.7244	1.1303	69.6	-170.3	.002197	5.32
	2.7184	.6507	69.8	141.8	.002420	5-89
	2.7025	.3164	77 e6	135.0	•002289	6.89
•	2.7443	•0040	56.8	-178.0	.002289	3.70
	2.9930	1.4507	75.8	160.6	.002809	8.29
	3.0229	1.0806	72.7	-166.0	•002752	7.27
	3.0229	.5791	101-9	142.0	.002791	14.49
	3.0249	•2905	68.0	-168.4	.002509	5.80
	3.0249	•0020	66.6	180.0	.002509	5.57
	3.3234	1.3612	68.7	176.7	. 002809	6-63
	3.3274	1.0229	76 - 8	142.3	.002752	8.12
	3.3274	•6030	66.3	161.0	.002791	6.13
	3.3274	.2547	63.2	172.9	.002509	5.01
	3.3274	.0100	8.63	-178.2	•0C2509	4.63

Table B-III. Rear-Lower Grid Calculations - Model 35 (Continued)

Model 35, Shot 334

TIME	x	Y	U	THETA	DENSITY	Q
MICROSEC	INCHES	INCHES	FT/SEC	DEGREES	SLUGS/CUFT	LB/SQFT
1675.00	2.4215	1-6312	69.6	- 50.8	.002539	6.15
	2.4761	1.2078	31.2	50.2	.002476	1.2i
	2.4859	.6771	26.1	147.5	.002788	•95
	2.4859	.3745	12.6	- 18.4	.002450	•20
	2.4859	.0039	33.1	- 25.0	.002450	1.34
	2.7785	1.5220	36.7	112.4	.002499	1.69
	2.7902	1.1200	20.1	174.3	.002641	.53
	2,8039	.6517	13.4	-116.6	•002494	.22
	2.8039	.3278	12.8	- 51.3	.002538	.21
	2.8020	.0020	33.0	166.0	.002538	1.38
	3.0712	1.4556	38.0	- 90.0	•002509	1.81
	3.0790	1.0576	22.3	153.4	•002597	•65
	3.0693	•6361	34.4	125.5	.002235	1.32
	3.0829	.2595	25.0	-151.4	.002434	•76
	3.0829	.0039	8.0	89.9	.902434	. 08
	3.4185	1.3698	15.1	29.7	•002509	. 23
	3.4146	1.0380	37.3	74.5	.002597	1.81
	3.4146	.5873	8.2	166.0	.002235	.08
	3.4146	-2498	35.7	-116.6	-002434	1,55
_	3.4146	.0039	16.5	-166.0	.002434	•33
1716.50	2.3841	1.5920	5.9	189.0	.002920	•05
	2.3960	1.2139	46.2	128.4	.002441	2.61
	2.3940	.6885	18.1	139.4	.002714	.44
	2.4060	.3622	2.0	180.0	.002716	•01
	2.4060	.0040	2.0	180.0	.002716	.01
	2.6886	1.5284	34.7	106.4	.002695	1.62
	2.7045	1,1323	28.0	102-1	•002263	-89
	2.7124	-6368	16.9	-125.5	.002461	•35
	2.7104	.3085	22.9	-110.0	.002431	.64
	2.7124	.0119	6 • 2	-161.6	.002431	.05
	2.9930	1.4129	20.8	- 48.8	.002915	•63
	3.0030	1.0905	32.8	72.6	•002529	1.36
	3.0030	-6070	27.8	- 50.7	.002428	,94
	3.0030	.2786	13.9	45.0	.002815	.27
	3.0249	.0100	10.0	- 11.3	.002815	•14
	3.3373	1.3692	15.3	50.2	-002915	•34
	3.3373	1.0587	16.6	- 45.0	.002529	•35
	3.3194	-6050	20.2	60.9	.002428	.49
	3.3114	.2229	29.5	- 84.2	.002315	1.22
	3.3114	.0060	4.4	- F. s. 4	.002815	•03

Table B-III. Rear-Lower Grid Calculations - Model 35 (Continued)

TIME	X	Y	J	THETA	DENSITY	Q
MICROSEC	INCHES	INCHES	FT/SEC	DEGREES	SLUGS/CUFT	LB/SQFT
1750 00	2 / 15/	1 (212		121 0	.002551	2.77
1758.00	2.4156	1.6312	46.6	121.0 49.8	.002239	1.30
	2.4488 2.4722	1.2449 .6888	34.0 25.3	- 18.4	.002723	.87
			23.3	- 59.0	.002723	•70
	2.4939	•3746 •0039		- 99.0	.902561	.18
	2.4839		12.0	~ 28.1	.002473	1.43
	2.7688	1.5551	34.0	19.7	.002475	•98
	2.7844	1.1473	29.7	13.0	.002379	• 96 • 85
	2.7941	.6380 .3063	26.7 43.0	- 21.8	.002429	2.25
	2.7961					1.75
	2.7961	.0000	38-0	.0	.002429 .002599	5.83
	3.0849	1.4400	67.0	72.6		.74
	3.0888	1.0888	24-1	41.6	.002553	
	3.0868	.6146	15.2	23.2	.002234	•26
	3.092?	.2693	24.4	55.0	.002562 .002562	•76
	3.0927	.0020	8.2	-166.0		.09
	3.4283	1.3815	30.0	- 53.1	.002599	1.17
	3.4263	1.0263	22.0	•0	.002553	.62
	3.4244	-6049	40.0	•0	.02234	1.78
	3.4166	.2205	50.5	18.4	•002562	3.27
. 700	3.4166	•0000	48.0	2.4	.002562	2.95
1799.50	2.3602	1.6318	21.1	- 68.2	.002763	.62
	2.4179	1.2398	29.5	3.8	•002324	1.01
	2.4179	.6806	54.9	- 2.0	.002463	3.71
	2.4179	.3423	58.0	11.7	a002640	4.44
	2.4179	.0040	56.8	•0	.002640	4.26
	2.7184	1.5124	18.5	- 32.0	•002689	•46
	2.7323	1.1423	15.3	50.2	.002316	•27
	2.7383	•6448	18.1	49.4	.002603	•42
	2.7502	.2905	13.9	- 45.0	.002723	•28
	2.7502	-0119	10-9	11.3	.002723	.14
	3.0129	1.4766	56.1	102.1	.002809	4.42
	3.0209	1.1065	13.7	.0	.002394	•23
	3.0169	.6129	16.7	~ 20.6	.002315	•32
	3.0169	-2985	9.8	~ 0	.002268	-11
	3.0169	.0080	10.5	21.8	•002268	-13
	3.3552	1.3453	26.3	63.4	.002809	.97
	3.3592	1.0587	11.1	45.0	.002394	-15
	3.3592	.6050	20.2	- 60.9	.002315	.47
	3.3592	.2388	27.8	50.7	,002268	-88
	3.3592	.0080	18-1	12.5	.002268	•37

Table B-III. Rear-Lower Grid Calculations - Model 35 (Continued)

TIME MICROSEC	X INCHES	Y INCHES	U FT/SEC	THETA DEGREES	DENSITY SLUGS/CUFT	Q LB/SQFT
1841.00	2.4234	1.6117	24.7	- 14.0	.002754	.84
	2.4780	1.2468	72.6	- 31.5	.002481	6.55
	2-5268	.6863	72.7	15.9	.003127	8.27
	2.5405	.3863	83.8	40.0	.003013	9.85
	2.5405	.0039	62.1	3.7	.003013	5.80
	2.7844	1.5454	24.3	- 9.5	.002470	•73
	2.7941	1.1590	25.6	51.3	.002184	.71
	2.8059	.6517	24.3	- 9.5	.002301	•68
	2.8059	.2966	22.8	52 .1	.002497	•65
	2.8059	.0020	14.1	- 45.0	.002497	•25
	3.0732	1.4946	26.8	- 63.4	.002318	.83
	3.1024	1.0888	12.6	71.6	.002511	•20
	3.1024	.6088	17.9	- 26.6	.002374	- 38
-	3.1024	.2693	35.7	- 63.4	.002434	1.55
	3.1024	•0059	48.3	- 7.1	.002434	2.84
	3.4400	1.4049	52 • 6	81.3	.G02318	2.20
	3.4341	1.0341	24.3	- 80.5	.002511	.74
	3.4341	.5873	34.2	- 83.3	.002374	1.39
	3.4341	.,2420	38.2	- 84.0	.002434	1.77
	3.4341	.0039	7.2	- 56.3	.002434	•06
1882.50	2.3841	1.6259	112.1	36.5	.002942	18-47
	2.4796	1.2020	111.0	20.7	.002813	17.32
	2.4876	.7005	95.7	35.0	.003102	14.19
	2.4796	.3940	55-1	12.0	.002764	6.03
	2.4796	.0083	64.7	- 1.7	.002764	5.78
	2.7423	1.5085	103.8	35.8	•003043	16.41
	2.7483	1.1622	73 • 2	15.5	.002305	6.17
	2.7622	-6408	120-1	28 - 2	.002623	18.91
	2.7642	.3085	131.7	36.5	.002535	21.96
	2.7602	.0020	105.8	1.1	•002535	14.19
	3.0249	1.4527	107.2	- 30.8	•002651	15.23
	3.0249	1.1184	71.8	25.9	.002367	6.11
	3.0328	.6050	110-4	27.5	.002305	14.05 14.86
	3.0328	.2667	103.1	8.7	•002797	15.08
	3.0647	.0020	103.8	- 1.1	-002797	6.42
	3.3632	1.3970	69.6	9.7 22.8	.002651 .002367	7.72
	3.3632	1.0348	80.8	17.5	.002305	7.02
	3.3632	.5711	78.1 74.9	- 6.0	.002303	7.84
	3.3632	.2010	74.4	•0	.002797	7.75
	3.3632	.0020	1 * 0 *3	•0	******	1913

Table B-III. Rear-Lower Grid Calculations - Model 35 (Continued)

Model 35, Shot 334

TIME	X	Y	U	THETA	DENSITY	Q
MICROSEC	INCHES	INCHES	FT/SEC	DEGREES	SLUGS/CUFT	L8/SQFT
1924.00	2.5132	1.6780	32.0	~ 90.0	.002686	1.37
172400	2.5815	1.2859	56.6	132.1	.002648	4.24
	2.6049	.7415	35.7	-153.4	.002685	1.72
	2.6049	.4000	34.2	- 96.7	.002299	1.34
	2.6049	.0020	12.6	108.4	.002299	-18
	2.8683	1.6059	33.C	166.0	.002581	1.40
	2.8644	1.1785	17.0	135.€	•002402	• 35
	2.9112	.7083	29.7	109.7	.002305	1.02
	2,9112	.3746	32.3	111.8	.002161	1.13
	2.9112	.0039	23.4	110.0	.002161	•59
	3.1649	1.4600	38 • 2	132.9	.002719	1.98
	3.1668	1.1200	44.0	- 90.0	.002612	2.52
	3.2000	.6595	36.8	40.6	.002346	1.59
	3.2039	.2849	28.0	• 0	.002611	1.02
-	3.2059	.0039	10.8	111.8	.002611	-15
	3.5083	1.4166	18.8	32.0	+002719	.48
	3.5083	1.0654	17.1	- 20.6	.002612	•36
	3.5083	.6107	15.1	- 7.1	.002346	• 30
	3.5083	.2341	18.8	- 32.0	.002611	• 46
	3.5083	.0039	16.1	7.1	.002611	•34
1965.50	2.3841	1.5940	28.5	- 15.9	.003288	1.34
	2.4418	1.2438	21.2	56.3	.002485	•56
	2.4557	-6846	58.0	- 11.7	.002966	4.99
	2.4756	•3602	58.0	11.7	•002989	5.03
	2.4756	.0199	58.8	1.9	.002989	5.17
	2.7104	1.5164	8.3	- 45.0	•002722	•09
	2.7363	1.1741	60.9	- 3.7	.002321	4.30
	2.7522	-6687	49.0	- 16.3	.002219	2.66
	2.7522	.3383	50.9	- 22.6	.002354	3.05
	2.7522	.0239	47.2	- 4.8	.002354	2.62
	2.9990	1-4806	96.5	77.1	.002182	10.15
	3.0249	1.0746	45.6	- 25.5	.002551	2.65
	3.0607	-6289	18.5	32.0	.002288	.39
	3.0607	.2667	38.6	30.5	-002878	2.15
	3.0607	.0119	37.4	- 6.0	.002878	2.02
	3.3791	1.4070	23.6	41.6	.002182	.61
	3.3791	1.6239	28.5	15.9	-002551	1.04
	3.3791	.5692	25.5	32.5	.002288	.75
	3.3791	.1910	41.3	58.6 - 9.5	.002878 .002878	2.46
	3.3791	.0040	23.8	- 4.5	•002575	-82

Table B-III. Rear-Lower Grid Calculations - Model 35 (Continued)

Model 35, Shot 334

TIME	X	Y	U	THETA	DENSITY	Q
MICROSEC	INCHES	INCHES	FT/SEC	DEGREES	SLUGS/CUFT	LB/SQFT
	2 5 4 2 5					
2007.00	2.5405	1.6702	144.1	106-9	-002712	28.16
	2.5932	1.3034	101.8	74-1	.002413	12.51
	2.6615	.7298	77.2	68.7	-002848	8.48
	2.6615	.4117	75.5	37.5	.002401	6.85
	2.6634	.0039	81.9	- 12.7	•002401	8.06
	2.8741	1.6000	68.3	69.4	•002309	5.38
	2.9249	1.1746	28.4	50.7	.002564	1.07
	2.9580	•6946	50.9	48.2	.002520	3.27
	2.9580	•3551	41.6	35.2	•0022 <i>25</i>	1.92
	2.9580	-0000	34.0	• Ü	.002225	1.28
	3.1863	1.5337	11.7	31.0	.002382	.16
	3.2078	1.1005	48.6	80.5	.002734	3.23
	3.2156	•6693	24.4	145.0	-002479	•74
	3.2371	.3044	28.0	90.0	.002429	•95
	3.2429	•0000	5.0	- 89.9	.002429	•04
	3.5259	1.4322	28.6	-155.2	.002382	•97
	3.5356	1.0732	36.8	130-6	•002734	1.86
	3.5298	-6244	104.7	103.2	.002479	13.58
	3.5298	.2693	75.8	108.4	.002429	6.98
	3.5317	.0000	24.0	180.0	.002429	.70
2048.50	2.3423	1.7313	37.7	99.0	.002861	2.03
	2.4697	1.3413	49.6	9.1	.902504	3.08
	2.4836	.7562	51.1	32.5	.002928	3.82
	2.5353	.4060	43.5	- 7.8	.003032	2.87
	2.5552	.0020	37.4	- 6.0	.003032	2.12
	2.7343	1.5801	49.4	33.7	.002844	3.48
	2.7542	1.1960	62.7	38.7	.002545	5.00
	2.7861	.7065	21.1	- 21.8	.002605	.58
	2.7861	•3622	51.5	- 8.7	-002401	3.19
	2.7861	.0239	35.5	6.3	.002401	1.51
	3.0090	1.4866	41.1	-0	-002691	2.28
	3.0328	1.1224	64.3	37.6	.002803	5.79
	3.0408	-6428	44.7	- 15.3	.002343	2.34
	3.0607	-2945	40-2	- 43.0	.002512	2.03
	3.0607	.0060	34.7	42.7	.002512	1.51
	3.3532	1.3950	56.8	- 43.6	.002691	4.34
	3.3552	1.0567	28.5	- 15.9	.002803	1.14
	3.3552	.6706	44.7	- 15.3	.002343	2.34
	3.3552	.2627	53.1	- 25.8	.002512	5.00
	3.3552	-0040	54.9	2.0	-002512	3.78

Table B-III. Rear-Lower Grid Calculations - Model 35 (Continued)

TIME	X	Y	U	THETA	DENSITY	Q
MICROSEC	INCHES	INCHES	FT/SEC	DEGREES	SLUGS/CUFT	LB/SQFT
2090.00	2.5346	1.7073	40.0	53.1	.002510	2.00
	2.6420	1.3112	33.3	-122.7	.002423	1.34
	2.7044	.7571	67.8	13.6	.002813	6.47
	2.7044	.4059	65.1	- 10.6	.002414	5.11
	2.7005	.0000	49.0	11.8	.002414	2.90
	2.9151	1.6273	26.3	81.3	.002475	.85
	2.9737	1.2137	17.2	54.5	.002281	.34
	2.9776	.6868	8.5	45.0	.002470	.09
	3.0088	.3473	50.1	- 28.6	.002594	3.25
	2.9932	.0039	48.3	- 24.4	.002594	3.02
	3.2273	1.5337	60.5	97.6	.002722	4.98
	3.2585	1.1395	40.2	5.7	.002676	2.16
	3.2585	.6576	44.0	39.5	.002273	2.20
	3.2653	.2771	43.0	21.8	.002572	2.38
	3.2683	.0234	40.0	- 2.9	.002572	06
	3.5668	1.3932	57.7	76.0	.002722	4,53
	3.5629	1.0654	26.8	26.6	.002676	•96
	3.5727	.6127	53.6	- 63.4	.002273	3.27
	3.5863	.2420	15.0	. 0	.002572	.33
	3.5863	.0020	10.2	- 11.3	.002572	.13
2131.50	2.3662	1.7632	139.4	156.0	.002498	24.28
	2.4517	1.3134	157.4	161.1	.002799	34.66
	2.5493	.7721	163.4	166.1	•003209	42.86
	2.5990	-3940	141.5	175.2	•003304	33.19
	2.6030	.0119	137.2	178.4	.003304	31.10
	2-7383	1.6060	168.7	177.3	•002558	36.39
	2.7642	1.2100	190.3	163.2	•002325	42.09
	2.7920	.7124	157.4	161 • i	•002360	29.22
	2.8299	•3383	176.5	171.1	.002383	37.12
	2.8299	.C040	160.6	180.0	.002383	30.75
	3-0010	1.5463	173.0	~166.9	.002373	35.49
	3.0726	1.1264	192.8	174.8	•002805	52.13
	3.0746	.6706	158.5	171.5	-002615	32.83
	3.1005	.3104	149.3	160.9	•002664	29.70
	3.1005	.0040	146.0	-173.1	•002664	28.41
	3.3672	1.4507	166.7	162.2	•002373	32.95
	3.3791	1.0687	154.6	171.3	.002805	33.52
	3.3791	.6229	154.1	168.3	.002615	31.03
	3.3711 3.3652	.2627 .0020	166.8 164.6	170.5 -179.3	•002664 •002664	37.08
	J• J074	•0020	104.0	-11703	•4446	36.08

Table B-IV. Rear-Upper Grid Calculations - Model 35

TIME MICROSEC	X INCHES	Y INCHES	U FT/SEC	THETA DEGREES	DENSITY SLUGS/CUFT	Q LB/SQFT
41.20	2.1271	3.6070	39.0	68.7	.002310	1.75
	2-1329	2.7722	12.1	- 90.0	.002405	.18
	2.1329	2.4888	29.4	105.9	.002182	. 94
	2.1349	2.1681	8.3	-166.0	.002298	•08
	2.1095	1.7849	4.5	-116.6	.002298	. 02
	2.5064	3.6109	29.4	- 74.1	.002512	1.08
	2.4829	2.7586	9.0	63.4	.002425	.10
	2.4829	2.4536	6.4	71.6	.002279	• 05
	2.4829	2.1212	10.9	- 21.8	.002292	.14
	2.4829	1.7458	12.3	80.5	•002292	•17
	2.8504	3.6168	35.7	-137.3	•002326	1.48
	2.8504	2.7449	14.5	-146.3	.002491	• 26
	2.8387	2.4223	10.1	126.9	.002108	•1ì
	2.8426	2.0802	10.9	-158.2	.002357	.14
	2.8563	1.7067	6.4	-161e6	•002357	• 05
	3.2532	3.6188	23.0	- 74.7	.002326	• 62
	3.2160	2.7370	12.8	108-4	.002491	•20
	3.2004	2.3949	4.5	-116.6	.002108	• 02
	3.1789	2.0469	19.9	156.0	.002357	• 47
	3.1339	1,6950	16.6	76.0	.002357	• 33
82.40	2.1287	3.6489	11.9	- 90.0	.002316	•16
	2.1287	2.7591	9.9	126.9	•002430	.12
	2.1207	2.4958	22.5	105.3	.002102	•53
	2.1207	2.1825	29,9	97.6	.002296	1.03
	2.1207	1.7935	21.8	- 5.2	.00229E	• 55
	2.4838	3.6130	5.9	89,9	•002565	• 05
	2.4838	2.7751	27.5	30.3	.002457	•93
	2.4798	2.4678	29.7	36.9	.002342	1.03
	2.4878	2.1287	32.2	42.5	.002477	1.28
	2.4798	1.7616	26.5	26.6	.002477	.87
	2 6 8 3 6 9	3.6369	57.6	84.1	.002271	3.77
	2.8329	2.7631	16.9	69.4	.002291	• 33
	2.8329	2.4319	25.2	45.0	.002330	• 74
	2.8269	2.0928	19.8	90.0	.002360	•46
	2.8309	1.7257	21.8	95.2	.002360	•56
	3.2379	3.6329	11.2	45.0	.002271	. 14
	3.2180	2.7511	42.0	48.8	.002291	2.02
	3.1860	2.3721	46.7	53.6	.002330	2.54
	3.1481	2.0688	23.8	41.6	.002360	.67
	3.1302	1.7177	36.1	23.2	.002360	1.07

Table B-IV. kear-Upper Grid Calculations - Model 35 (Continued)

TIME	X	Y	U	THETA	DENSITY	Q
MICROSEC	INCHES	INCHES	FT/SEC	DEGREES	SLUGS/CUFT	LB/SQFT
123.60	2.1271	3.5953	27.1	-153.4	.002257	. 83
	2.1271	2.7801	25.8	128.7	.002288	. 76
=	2.1271	2.5103	14.5	123.7	.002056	•22
	2.1310	2.1975	7.3	-123.7	.002103	.06
	2.1310	1.7830	15.4	-113.2	.002103	. 25
	2.5064	3.6168	24.6	145.0	.002506	. 76
	2. 764	2.7722	21.7	-158.2	.002533	•6C
	2.5064	2.4712	20.8	-150.9	•0u2391	• 52
	2.5064	2.1427	31.3	165.1	.002430	1.19
	2.5064	1.7576	23.5	-121.0	.002430	•67
	2.8563	3.6735	23.6	20.0	.002234	• 62
	2.8563	2.7695	20.6	- 78.7	·0u2421	-51
	2.8563	2.4349	9.0	-116.6	·0u1969	.08
	2.8426	2.0997	32.5	- 97.1	·0u2184	1.16
	2.8543	1.7283	16.3	- 60.3	.002184	.29
	3,2610	3.6286	8,3	- 14,C	.0ú2234	• 08
	3.2434	2.7683	10.1	- 89.9	.002421	•12
	3.2278	2.4321	24.2	90. U	.001969	.5 8
	3.1965	2.0626	32.8	- 47.5	.002184	1.18
	3.1613	1.7067	32.5	- 97.1	·0U2184	1.16
164.80	2.1047	3.6369	23.1	20.0	.002330	•62
	2.1127	2.7791	31.3	18.4	•0ü2436	1.19
	2.1127	2.5077	31.9	- 21.8	•002208	1.13
	2.1167	2.1766	33.7	- 49.8	•0u2298	1.30
	2-1147	1.7796	20.4	- 29.1	.002298	• 48
	2.4638	3.6269	15.1	66.8	•002278	.26
	2.4638	2.7671	34.5	13.2	.002366	1.41
	2.4618	2,4579	18.2	- 12.5	.002190	. 36
	2.4579	2.1367	26.9	- 54.0	•002304	。83
	2.4678	1.7416	19.8	- 90.0	002304	· 45
	2.8589	3.6449	47.0	- 67.8	.00227/	2.51
	2.8369	2.7431	8.8	- 26.6	.002454	.1C
	2.8289	2.4239	12.7	- 51.3	.002020	• 16
	2.8229	2.0608	28.0	- 45.0	.092337	. 91
	2.8389	1.7117	16.8	- 45.0	•0u2337	• 33
	3.2459	3.6309	11.5	149.0	• GU2277	.15
	3.2180	2.7411	15.1	- 66.8	•0ú2454	. 28
	3.1860	2.3960	9.9	-143.1	•002020	.16
	3.1701	2.0449	19.9	24. 3	.002337	•46
	3.1262	1.6858	18.2	77.5	.002337	•39

Table B-IV. Rear-Upper Grid Calculations - Model 35 (Continued)

	v	u u	U	THETA	DENSITY	Q
TIME	X	A	FT/SEC	DEGREES	SLUGS/CUFT	LB/SQFT
MICROSEC	INCHES	INCHES	FITTE	DCOREES		-
204 00	2.1486	3.6031	10.3	-168.7	.002286	.12
206.00	2.1564	2.7898	25.3	61.4	.002181	.70
	2.1564	2.4985	18.6	49.4	.002004	• 35
	2.1525	2.1720	8.1	.0	.002213	• 07
	2.1486	1.7732	13.5	173.4	.002213	.20
	2.5322	3.6305	30.0	109.7	.002607	1.17
	2.5396	2.7801	6.1	• 0	.002588	• 05
	2.5239	2.4673	18.6	40.6	.002320	• 40
	2.5220	2.1212	14.1	•0	.002399	• 24
	2.5064	1.7380	32.8	100.6	.002399	1.29
	2.8739	3.6305	26.9	167.0	.002347	• 85
	2.8641	2.7566	57.4	108.4	.002485	4.10
	2.8641	2.4301	51.9	103.5	.002119	2.85
	2.8622	2.0802	58.6	93.9	.002298	3.95
	2.8661	1.7165	27.1	116.6	.002298	484
	3.2512	3.6325	50.1	139.9	.002347	2.95
	3.2493	2.7546	38.5	132.9	.002485	1.85
	3.2199	2.4262	47.6	126.4	.002119	2.40
	3-1984	2.0821	74.9	117.3	.002298	6,45
	3.1652	1.7243	51.9	103.5	.002298	3.09
247.20	2.0948	3.6349	94.4	70.4	.002345	10.46
241420	2.1247	2.8010	95.5	27.1	.002471	11.27
	2.1247	2.5217	94.6	26. Û	.002098	9.39
	2.1247	2.1766	94.4	19.6	.002363	10.53
	2.1027	1.7855	70.2	9.7	•062363	5.82
	2.4539	3.6549	91.7	37.1	.002431	10.23
	2.4698	2.7671	69.9	28.7	•002572	6.29
	2.4758	2.4698	79.1	13.0	.002321	7.27
	2.4718	2.1367	85.9	23.0	.002363	8.72
	2.4618	1.7736	83.8	19.3	.002363	8.29
	2.8329	3.6509	121.8	32.4	.002397	17.77
	2.8190	2.7970	102.1	31.5	.002553	13.30
	2.8170	2.4738	89.9	33.3	.002274	9.20
	2.8190	2.1187	87.6	28.3	.002297	8.81
	2.8269	1.7357	75.8	15.1	.002297	6.59
	3.2080	3.6628	109.0	45.0	.002397	14.25
	3.1920	2.7691	84.0	26.6	.002553	9.01
	3.1581	2.4339	105.5	6.5	.002274	.2.65
	3c1362	2.1107	76.4	10.4	.00229?	6.70
	3.1142	1.7357	69.9	- 8.1	.002297	5.61

Table B-IV. Rear-Upper Grid Calculations - Model 35 (Continued)

TIME	×	Y	U	THETA	DENSITY	Ú
MICROSEC	INCHES	INCHES	FT/SEC	DEGREES	SLUGS/CUFT	LB/SQFT
	1110111.3	111011113	117366	Dednees	3C0037C(11 1	C0/34: :
288,40	2.1799	3.6911	33.8	17.4	.002152	1.23
	2.2405	2.3328	84.8	- 1.4	.002215	1.96
	2.2405	2.5396	94.7	- 26.6	.002073	9.30
	2.2405	2.2033	85.5	- 19.5	.002140	7.82
	2.2170	1.7849	81.7	- 20.2	.002140	7.14
	2.5846	3.6852	75.1	- 6.2	• 002368	6.67
	2.6002	2.8133	78.7	• 0	• 902430	7.52
	2.6002	2.4948	84.3	- 11.0	•002362	8.39
	2.6902	2.1544	86.8	• 0	.002340	8.81
	2.5846	1.7654	89.6	- 14.3	.002340	9.38
	2.9756	3.6950	34,4	3.4	•002347	1.42
	2.9501	2.8074	60.7	- 15.4	.002321	4.28
	2.9384	2.4790	69.6	- 29.5	•002008	4.86
	2.9384	2.1212	63.8	- 34.7	.002174	4.42
	2.9384	1.7361	46.4	- 2.5	+0u2174	2.35
	3.3275	3.7087	35.2	- 23.6	.0u2397	1.49
	3.3236	2.7918	51.1	9.1	.002321	3,03
	3.3236	2.4379	89.4	- 28.3	•002008	6.02
	3.2727	2.0958	92.8	- 42.4	.0u2174	9.37
	3.2336	1.7146	59.3	- 35.3	·0u2174	3.83
324.60	2.1267	3.6449	66.7	- 78.G	.002230	4.96
	2.2085	2.7990	42.0	-131.2	.002279	2.01
	2.2085	2.4798	56.7	-119.2	•002183	3.50
	2.2045	2.1486	34,5	-103.2	.002250	1,34
	2-1786	1.7576	31.3	-108.4	·0u22>0	1.10
	2.5277	3.6469	57.4	- 92·J	.002632	4.33
	2.5476	2.7671	40.7	-119• î	.042598	2.15
	2.5576	2.4539	35.0	-132-7	·0u2576	1.58
	2.5576	2.1367	35.2	-141.8	•062676	1.66
	2.5476	1.7516	40.7	-119.1	•002676	2.22
	2.8668	3.6529	74.1	-133.9	·0u2436	6.69
	2.8768	2.7810	56.0	-122.0	•902293	3.59
	2.8768	2.4399	60.0	-107.2	.002086	3.76
	2.8708	2.0828	54.0	-118.4	.002415	3.52
	2.8728	1.7337	53.4	-141.0	.002415	3.45
	3.2399	3. 6489.	59.3	-126.9	•002436	4.28
	3.2419	2.7771	53.8	-144.0	.002293	3.32
	3.2359	2.3920	88.9	-147.7	•002086	8.24
	3.2040	2.0489	60.I	-136.3	.002415	4.37
	3.1621	1.7017	43.8	-161-6	.002415	2.31

Table B-IV. Rear-Upper Grid Calculations - Model 35 (Continued)

TIME MICROSEC	X INCHES	Y INCHES	U FT/SEC	THETA DEGREES	DENSITY SLUGS/CUFT	Q LB/SQFT
370.80	2.1935	3.6266	82.4	- 21.5	.002243	7.62
	2.2131	2.8016	53.4	- 10.9	.002151	3.07
	2.2131	2.4907	56.2	- 21.0	.002188	3.46
	2.2326	2.1701	35,8	- 16.4	.002205	1.41
	2.2072	1.7556	58.9	- 38.0	.002205	3.83
	2.5826	3.6285	62.5	• 0	.002612	5.11
	2 5896	2.7781	38.8	- 27.9	.002443	1.84
	2.5767	2.4594	33.6	- 32.7	.002376	1.34
	2.5728	2.1329	42.0	- 54.8	.002403	2.12
	2.5650	1.7302	57.4	- 50.7	• 7403	3.95
	2.9247	3.6422	51.4	- 45.0	.002420	3.19
	2,9208	2.7625	34.4	- 49.8	.002465	1.46
	2.9208	2.4223	44.3	- 59.9	•002298	2.25
	2.9130	2.0743	27.4	- 17.1	•002366	.89
	2.8974	1.7028	63.4	- 52.8	•002366	4.75
	3.2923	3.6618	40.9	- 20.2	.002420	2.02
	3.2805	2.7605	43.6	- 56.3	.002465	2.35
	3.2493	2.3910	14.5	- 33 _e 7	.002298	. 24
	3.2297	2.0547	26.3	- 4.4	.002366	,, 82
	3.1926	1.7009	62.3	- 60.9	,002366	4.59
412.00	2,2025	3.6150	18.2	-139-4	.002329	• 39
	2.2603	2.7890	72.5	- 17.4	•002387	6.28
	2,2603	2.4599	54.3	- 10-5	.002266	3.34
	2.2384	2.1387	46.6	- 63.4	.002211	2.62
	2.2244	1.7217	42.0	- 41.2	.002211	1.95
	2.5895	3.6469	24,8	28.6	.002779	• 85
	2.5815	2.7491	24.5	- 14.0	.002624	• 78
	2.5855	2.4359	21.0	- 48.8	.002647	•58
	2.5815	2.1027	35.6	- 56.3	.002491	1.58
	2.5835	1.7077	33.7	- 49.8	.002491	1.41
	2.9027	3.6170	30.9	- 63.4	.002496	1.15
	2.8988	2.7551	17.9	- 83.7	.302369	.38
	2.8998	2.4020	11.9	·· 90•0	.002241	-16
	2:8969	2.0748	12.0	- 9.5	.002162	•16
	2.9107	1.6838	36,3	- 53.7	.002162	1.46
	3.2778	3.6349	3 . €	- 84.0	.002406	1.72
	3.2658	2.7411	32.2	-100.6	.002369	1.23
	3.2479	2.3840	29.7	- 86.2	.002241	.99
	3,2299	2.0467	23.9	- 24.4	•0ú2162	•62
	3.1920	1.6479	30.9	- 63.4	.002162	1.04

Table B-IV. Rear-Upper Grid Calculations - Model 35 (Continued)

TIME	X	Y	IJ	THETA	DENSITY	٩
MICROSEC	INCHES	INCHES	FT/SEC	DEGREES	SLUGS/CUFT	LB/SQFT
					0. 2222	2 24
453.20	2,1799	3.6149	54.5	141.0	.002232	3.32
	2.2815	2.7801	33.6	57.3	.002432	1.37
	2.2659	2.4809	34.3	90.0	.0u2159	1.27
	2.2542	2.1271	24.3	41.6	.002302	.68
	2.2385	1.7283	25.3	61.4	•0u2302	.74
	2.5041	3.6403	34.5	173.3	.002715	1.62
	2.6041	2.7722	36.4	70.6	.002556	1.69
	2,5904	2.4438	41.2	78.7	.002447	2.07
	2.5974	2.1036	20.8	60.9	.002365	.51
	2.5865	1.7048	28.5	81.9	•202365	.96
-	2.9384	3.6149	38.5	84.0	.002501	1.86
	2.9228	2.7449	46.9	64.5	.002511	2.76
	2.9208	2.4106	28.5	45.0	• Ju2367	• 96
	2.9247	2.0723	18.C	26.6	.002220	• 36
	2.9189	1.6735	24.3	41.6	.002220	• 66
	3.2962	3.6246	48.5	92.4	.002501	2,94
	3.2747	2.7292	32.5	82.9	.002511	1.33
	3.2512	2.3617	20.3	84.3	002367 م	.49
	3.2512	2.0450	14.5	56.3	.002220	¿ 23
	3.2063	1.6735	48.0	75.4	.0u2220	2,55
494.40	2.1606	3.6499	18.8	108.4	.002364	•42
	2.2783	2.8170	8.2	76.0	•0u2418	.08
	2.2603	2.4938	15.1	23.2	.002141	.24
	2.2564	2.1546	38.4	55.5	.002306	1.70
	2.2364	1.7436	29.2	28.3	.302396	. 98
	2.5556	3.6509	10.6	-111.8	.002640	.15
	2.5935	2.7830	17.7	- 26.6	.002434	•39
	2.5935	2.4758	29.7	• 0	.002446	1.08
	2.5915	2.1207	28.0	8.1	.002473	•97
	2.5875	1.7357	REAUINGS	INVALID		
	2.9067	3.6549	59.0	129.6	•0u2462	4.28
	2.9187	2.7970	19.8	180.0	·002372	• 46
	2.9187	2.4219	17.7	153.4	.002262	.35
	2.9127	2.0823	20.6	-163.3	.002341	•50
	2.4287	1.6998	23.9	155.6	•0u2341	.67
	3.2758	3.6828	15.9	97.1	.002462	.31
	3,2698	2.7731	32.7	115.0	.002372	1.27
	3.2499	2.4040	23.1	149.0	.002262	.60
	3.2379	2.0589	29.7	180.0	.002341	1.03
	3.2040	1.6938	15.1	-156.8	.002341	.27

Table B-IV. Rear-Upper Grid Calculations - Model 35 (Continued)

TIME	×	Y	U	THETA	DENSITY	Q
MICROSEC	INCHES	INCHES	FT/SEC	DEGREES	SLUGS/CUFT	LB/SQFT
E35 40	2.1740	3.6325	14.3	-171.9	•0ú2184	•22
535.60	2.2835	2.7879	53.0	-107.7	.002354	3.30
	2.2796	2.4868	24.3	- 85.2	.002184	264
	2.2757	2.1584	9.0	153.4	READINGS	-
	2.2639	1.7419	4.0	180.0	READINGS	
	2.6002	3.6305	18.0	- 26.6	•002961	•48
	2.6197	2.7644	6.4	- 71.6	.002994	• 06
	2.6197	2.4438	18.6	- 77.5	.002798	•48
	2.6197	2.1075	7.3	-123.7	READINGS	•
	NO READI		. • •			
	2.9013	3.6598	29.1	- 33.7	.002324	.98
	2.9032	2.7449	38.5	- 84.0	.002473	1.84
	2.9052	2.4184	6.4	108.4	.002322	• 05
	2.9052	2.0665	8.3	76.0	.002255	80.
	2.9974	1.6833	22.6	169.7	.002256	•57
	3.2942	3.6403	37.7	-105.5	•002324	1.65
	3.2610	2.7586	23.5	-121.C	.002473	.66
	3.2317	2.3734	25.3	-118.6	.002322	.74
	3.2219	2.0450	25.8	128.7	•002256	• 75
	3.1926	1.6676	32.8	-137.5	.002256	1.22
576,80	2.1466	3.6469	4.4	153.4	.002146	• 02
	2.7623	2.7571	16.3	76.0	•002405	• 32
	2.2623	2.4698	7.1	123.7	.002247	• 06
	2.2484	2.1586	8.8	-116.6	.002241	• 09
	2.2324	1.7436	17.9	173.7	.002241	• 36
	2.5716	3.6429	42.7	166.6	.002574	2.34
	2.5955	2.7771	37.6	93.0	•002620	1.85
	2.5975	2.4579	12.0	99.5	•002496	-18
	2.5875	2.1147	10.1	101.3	•002441	•12
	2.5815	1.7137	READINGS	INVALID		
	2.9307	3.6389	49.9	- 33.7	•002637	3.28
	2.9227	2.7591	50.6	38.7	.002610	3.35
	2.9167	2.4279	34.1	10.0	•002522	1.47
	2.9147	2.0708	33.1	17.4	•002273	1.25
	2.9067	1.7037	43.5	39.5	•002273	2.15
	3.2658	3.6469	12.5	- 71.6	.002637	• 21 • 25
	3.2579	2.7531	28.3	12.1	.002610	1.05
	5.2379	2.3820	34.5	21.6	•002522	1.50
	3.2219	2.0788	28.8	15.9	.002273	.94
	3.1800	1.6718	17.9	6.3	•002273	• 36

Table B-IV. Rear-Upper Grid Calculations - Model 35 (Continued)

TIME	X	Y	U	THETA	DENSITY	0
MICROSEC	INCHES	INCHES	FT/SEC	DEGREES	SLU6S/CUFT	LB/SQFT
618.00	2.1701	3.6344	153.2	-167.1	.002365	27.75
2,0000	2.2874	2.8035	140.0	165.0	.002240	21,95
	2.2757	2.4927	134.4	172.2	.002122	19.17
	2.2717	2.1505	123.1	180.0	.002258	17.10
	2.2453	1.7439	138.4	-172.5	.002258	21.62
	2.5591	3.6403	131.9	-173.9	.002574	22,39
	2.6178	2.8016	159.5	177.8	.002446	31.12
	2.6178	2.4555	159.5	-177.8	.002505	31.87
	2.6178	2.1173	147.3	178.4	.002586	28.08
	2.6041	1.7322	147.5	-176.9	.002586	28.14
	2.9423	3.6325	151.3	179.2	.002596	29.72
	2.9423	2.7761	155.5	177.8	.002460	29.73
	2.9384	2.4242	157.4	178.5	.002335	28.94
•	2.9365	2.0762	157.1	-167.4	.002358	29.11
	2.9306	1.7197	160.0	-166.1	.002358	30,19
	3.2981	3.6285	143.9	-174,4	.002596	26.83
	3.2884	2.7644	143.6	176.0	.002460	25.37
	3.2630	2.3871	151.4	-178.5	.0u2335	26.76
	3.2493	2.0528	148.4	-168.2	•00235a	25.96
	3.2102	1.6696	147.6	176.1	•002358	25.70
659,20	1.9990	3.6130	29.7	-143.1	.002283	1.00
	2.1287	2.8030	4,4	63.4	·002480	• 02
	2.1307	2.4878	14.0	8.1	. 902403	.23
	2.1267	2.1586	12.5	71.6	• 0J2272	.18
	2.0968	1.7257	16.3	- 76.0	.002272	.3G
	2.4419	3.6289	46.2	- 46.7	.375671	2.85
	2.4379	2.7830	28.3	- 65.2	.002542	1.02
	2.4399	2.4519	2.0	89.7	.002418	•00
	2.4419	2.1187	6.3	161.6	•0ú2439	• 05
	2.4359	1.7057	18.2	- 77.5	•002439	.41
	2.7810	3.6409	12.5	- 71.6	.002601	•20
	2.7691	2.7651	4.0	 0	.002481	• 02
	2.7611	2.4319	ĩ.9	89.9	.002247	.07
	2.7631	2.0569	4.0	180.0	•002330	• 02
	2.7531	1.6658	23.1	-110.0	•042330	•62
	3.1242	3.6329	17.9	- 96.3	.002601	•42
	3.1162	2.7631	4.4	-116.6	.002481	•02
	3.0883	2.3781	10-1	-101.3	·0u2247	.11
	3.0783	2.0489	10.1	-101.3	•002330	•12
	3.0344	1.6818	9.9	- 53.1	• 902330	•11

Table B-IV. Rear-Upper Grid Calculations - Model 35 (Continued)

Model 35, Shot 337

TIME MICROSEC	X INCHES	Y INCHES	ป FT/SEC	THETA DEGREES	DENSITY SLUGS/CUFT	Q LB/SQFT
MICKUSEC	1.101.20			_	64222	17.96
700.40	2.1466	3.6168	127.1	•9	.002223	16.29
. 334 . 0	2.2893	2.8974	118.0	12.8	.002342	16.58
	2.2893	2.4946	122.1	7.6	.0ú2223 .0ú2162	18.04
	2.2757	2.1623	129.2	14.5	•002162	18.60
	2.2502	1.7283	131.2	.9	.002735	16.32
	2.5904	3.6070	109.2	- 4.2	.002606	27.63
	2.6295	2.7761	145.6	4.0	.002466	26.43
	2.6178	2.4575	146.4	11.9	.002492	25.61
	2.6119	2.1193	143.4	2.4	.002492	27.53
	2.6080	1.7146	148.7	18.2	.002472	20.86
	2.9462	3.6207	124.8	- 14.0	.002491	24.11
	2.9462	2.7761	139.1	16.9	.002305	25.06
	2.9384	2.4321	147.5	16.7	.002303	21.52
	2.9326	2.0762	138.6	16.1	.002242	25.21
	2.9228	1.6891	150.0	17.2	.002679	23.89
	3.2962	3.6109	133.5	4.3	.002491	24.89
	3.2864	2.7605	141.4	2.5	.002305	22.37
	3.2610	2.3773	139.3	10.0	.002242	20.10
	3.2473	2,0430	133.9	- 6.1	.002242	24.77
	3.2160	1.6618	148.7	7.8 -104.0	.002313	• 08
741.60	2.1247	3.6150	8-2	68.2	.002325	.13
	2.2424	2.8289	10.6	90.0	.002234	.16
	2.2504	2.5037	11.9	111.8	.002208	•13
	2.2504	2.1905	10.6	35,0	.002208	.64
	2.2264	1.7277	24.1	129.8	.002815	3.02
	2.5496	3.6209	46.3	-123.7	.002687	.27
	2.5815	2.7930	14.3 12.5	108.4	.002368	.19
	2.5815	2.4818	19.8	- 90.0	.002625	.51
	2.5835	2.1247	21.7	90.0	.002625	•62
	2.5756	1.7516	19.9	174.3	.002627	•52
	2.9007	3.6110	37.3	-122.0	.002529	1.76
	2.9007	2.8050	19.5	-114.0	.002125	.40
	2,9007	2.4738	12.5	108.4	.002430	.19
	2.8948	2.0948	7.1	33.7	.002430	• 06
	2.8948	1.7097 3.6429	20.4	29.1	.002627	•54
	3.2559	2.7691	7,9	- 89.9	.002529	.08
	3.2559	2.4020	17.9	- 83.7	.602125	.34
	3.2239	2.0349	16.3	-104-0	.002430	•32
	3.2100	1.7017	18.8	108.4	.002430	. 43
	3.1800	fe .or.	1440		•	

Table B-IV. Rear-Upper Grid Calculations - Model 35 (Continued)

Model 35, Shot 337

TIME	X	Y	U	THETA	DEMSITY	Q
MICROSEC	INCHES	INCHES	FT/SEC	DEGREES	SLUGS/CUFT	LB/SQFT
782.80	2.1447	3.6090	8.3	- 14.0	·0u2293	• 08
	2.2933	2.8172	39.8	- 30.5	.002497	1.98
	2.2893	2.5064	47.6	- 53.6	.002116	2.4°
	2.2717	2.1720	53.3	- 60.5	.0ù2342	3.33
	2.2698	1.7419	56.6	4.1	.002342	3.76
	2.5611	3.6422	14.7	- 74.1	•0u2624	•28
	2.6217	2.7644	22.8	- 45.0	.002831	.74
	2.6139	2.4692	35.3	- 59.0	.002492	1.55
	2.6119	2.0997	34.3	- 61.9	.002597	1.53
	2.6080	1.7361	40.9	- 57.1	•002597	2.17
	2.9267	3.6227	29.1	- 33.7	. 902494	1.02
	2.9267	2.7449	£3.2	- 73.3	.0u2406	4.89
	2.9306	2.4145	72.4	- 77.1	.002373	6.23
	2.9286	2.0880	13.5	- 63.4	•002363	•22
	2.9286	1.6931	49.8	- 68.6	.002363	2.93
	3.313R	3.6207	28.5	- 81.9	. 0ú2404	• 98
	3.2864	2.7527	32.3	- 90.0	. 002406	1.25
	3.2630	2.3597	44.2	- 65.8	•0u2373	2.32
	3.2434	2.0274	8.3	104.0	.002363	• O8
•	3.2102	1.6794	54.5	- 90.0	.002363	3.51
824.00	2.1327	3.6130	62.4	11.0	.002358	4.59
	2,2763	2.8090	31.9	-111.8	.002309	1.18
	2.2783	2.4658	25.7	-112.6	.002274	. 75
	2.2763	2.1446	24.1	- 99.5	.002504	• 72
	2.2823	1.7317	11.5	-121.0	.002504	.17
	2.5536	3.6070	50.5	- 30.6	.002655	3.39
	2.5975	2.7771	28.1	129.3	.002591	1.02
	2.5995	2.4519	26.9	-107.1	.002615	• 95
	2,5995	2.0948	7.1	-146.3	.002563	• 07
	2.5975	1.7177	47.5	-106.9	.002563	2.90
	2.9247	3.5950	13.8	180. û	•0ú2699	•26
	2.9187	2.7451	19.9	95.7	·002539	•50
	2.9167	2.4040	9.9	143.1	.302488	•12
	2.9007	2.0828	32.2	-132.5	.002247	1.16
	2.9127	1.6638	24.8	-151.4	.002247	,69
	3.2599	3.6150	49.6	-175.4	.0u2699	3.32
	3.2559	2.7372	22.1	169.7	•0û2539	•62
	3.2419	2.3621	22.1	116.6	.002488	.61
	3.2080	2.0429	17.9	173.7	.002247	. 36
	3.1800	1.6479	30.8	-135.0	.002247	1.06

Table B-IV. Rear-Upper Grid Calculations - Model 35 (Continued)

TIME MICROSEC	X INCHES	Y INCHES	U FT/SEC	THETA DEGREES	DENSITY SLUGS/CUFT	Q LB/SQFT
865.20	2.2053 2.2815	3.6207 2.7879	36.4 40.0	3.2 49.1	.002369 .002359	1.57 1.89
	2.2796	2.4829	99.4	66.0	.002337	10.80
	2.2679	2.1486	94.7	63.4	.002293	10.29
	2.2639	1.7322	67.2	57.3	.002293	5,17
	2.6041	3.6168	28.9	55.2	•002273	1.21
	2.6041	2.7859	31.5	50.2	•002520	1.25
	2.6061	2.4438	71.3	61.3	.002523	6.42
	2.6061	2.0958	104.9	67.4	.002594	14.28
	2.5943	1.6911	81.2	34.9	.002594	8.54
	2.9130	3.6227	41.5	119.1	.002636	2.27
	2.9247	2.7644	77.2	70.1	.0ú2491	7,43
	2.9228	2.4203	75.8	61.4	.002206	6.34
	2.9071	2.0645	72.2	26.6	.002313	6.03
	2.9071	1.6813	105.3	53.6	.002313	12.83
	3.2649	3.6168	32.5	29.7	.002636	1.39
	3.2649	2.7566	72,7	70.6	.002491	6.59
	3.2532	2.3793	92.2	66.8	.002206	9.37
	3.2258	2.0293	84.5	49.8	.002313	8.25
	3.1887	1.6579	100.9	53.1	.002313	11.77
906.40	2.1686	3.6150	45.6	- 5.0	.002490	2.59
	2.3022	2.8389	28.3	24.8	.002774	1.11
	2.3182	2.5556	38.4	11.9	.002405	1.77
	2.3182	2.2284	45.6	17.7	.002188	2.28
	2.3182	1.7875	47.0	- 14.6	.002188	2.42
	2.5656	3.6329	31.9	-119.7	.002808	1.43
	2.6175	2.3010	51.7	- 43.5	•002692	3.60
	2.6334	2.5137	52.8	- 13.0	•002528	3.52
	2.6394	2.1905	39.5	• 0	•002501	1.96
	2,6633	1.7636	48.5	11.8	.002501	2.94
	2.9047	3.6309	63.2	- 20.1	•002662	5.31
	2.9446	2.8170	48.1	- 19.2	•0ù258&	3.00
	2.9526	2.4698	40.3	- 11.3	•002354	1.91
	2.9645	2.1147	58.6	- 11.7	•002505	4.30
	2.9746	1.7476	55.7	- 6.1	.002506	3.88
	3.2878	3.6309	63.8	- 16.2	.002662	5.42
	3.2798	2.8050	44.4	- 32.3	.002588	2.55
	3.2778	2.4459	43.4	- 43.2	•002354	2.21
	3.2618	2.1067	52.8	- 13.0	.002506	3.49
	3.2399	1.7277	57.6	- 5.9	• 002 506	4.16

Table B-IV. Rear-Upper Grid Calculations - Model 35 (Continued)

TIME	X	Y	U	THETA	DEHSITY	Q
MICROSEC	INCHES	INCHES	FT/SEC	DEGREES	SLUGS/CUFT	L8/SQFT
947.60	2.2502	3.6168	83.1	-174.4	·002571	8.88
	2.3069	2.7996	4.5	-116.6	•002356	• 02
	2.3167	2.4907	12.8	-108-4	.002207	.18
	2.3159	2.1623	5.7	~135.3	.002261	. 04
	2.3089	1.7204	9.0	116.6	.002261	• 09
	2.5885	3.5894	20.2	- 36.9	•0ú2561	• 52
	2.6413	2.750T	18.3	- 6.3	.002658	. 44
	2.6569	2.4321	12.3	- 9.5	.002529	.19
	2.6452	2.0958	42.8	- 70.7	.002542	2.32
	2,6413	1.7009	27.1	-116.6	•0u2542	• 93
	2.9717	3.6012	36.4	- 3.2	.002657	1.76
	2.9697	2.7488	30.0	-109.7	•0u2550	1.15
	2.9619	2.4125	13.5	153.4	.002311	•21
	2.9638	2.0528	27.4	126.0	.002366	.89
	2.9619	1.6755	28.9	167.9	.002366	• 99
	3.3255	3.5992	14.3	171.3	.002657	•27
	3.3021	2.7331	13.5	-116.6	.302550	•23
	3.2845	2.3500	28.5	-135.0	.002311	• 94
	3.2766	2.0176	22.3	174.8	.002366	.59
	3.2454	1.6520	21.1	163.3	•002366	•52
988.80	2.0868	3.6070	63.3	180.0	.002158	4.32
	2.3002	2.8349	24.1	35.0	.002581	• 75
	2.3142	2.5436	30.9	50.2	.002184	1.04
	2.3142	2.2244	42.5	27.8	.002221	2.00
	2.3142	1.7955	42.0	48 8	.002221	1.96
	2.5815	3.6209	41.7	5.4	£002818	2.45
	2.6354	2.7990	41.6	64.7	.003093	2.67
	2.6454	2.5117	57.4	0.88	• 002664	4.38
	2.6534	2.1506	51.6	32.5	.002679	3,56
	2.6514	1.7397	42.5	27.8	·052679	2.41
	2.9406	3,6289	13.3	116.6	.002776	. 24
	2.9347	2.7890	32.6	76.0	.002699	1.44
	2.9406	2.4753	31.9	60.3	.002543	1.29
	2.9486	2.1367	29.4	42.3	+002454	i.06
	2.9466	1.7536	35.0	47.3	.002454	1.5C
	3.2738	3.6329	19.5	24.0	.0u2776	•53
	3.2738	2.7930	42.0	41.2	·0u2699	2.38
	3.2579	2.4259	53.2	48.0	.002543	3.60
	3.2399	2.1087	23.1	59.0	.0ù2454	.65
	3.2260	1.7337	36.3	45.0	.002454	1.62

Table B-IV. Rear-Upper Grid Calculations - Model 35 (Continued)

Model 35, Shot 337

		v.	U	THETA	DENSITY	Q
TIME	X	Y	FT/SEC	DEGREES	SLUGS/CUFT	LB/SQFT
MICROSEC	INCHES	INCHES	F1/3EC	DEGRECS	32000700.	
	2 1077	3.6168	59.6	- 24.0	.002297	4.08
1030.00	2.1877 2.3255	2.8133	46.4	145.6	.002532	2.73
		2.5142	33.1	127.6	.002166	1.19
	2.3363	2.1818	4.5	153.4	.002214	• 02
	2.3480	1.7517	18.0	116.6	.002214	. 36
	2.3363	3.5934	28.5	-171.9	.002872	1.17
	2.6295	2.7879	30.3	180.0	.002705	1.24
	2.6588	2.4888	41.4	-137.0	.002455	2,10
	2,5588	2.1232	20.2	126.9	.002681	•55
	2.6882	1.7204	19.0	122.0	.002681	• 49
	2.5784	3.6129	37.2	-130.6	.002546	1.76
	2.9658 2.9775	2.7801	23.0	127.9	.002424	.64
	2.9775	2.4399	22.6	-153.4	.002193	•56
		2.0723	21.1	-106.7	.002441	• 54
	2.9853 2.9853	1.7009	6.4	-198.4	.002441	• 95
	3.3431	3.6070	24.2	- 90.0	.002546	•75
	3,3333	2.7605	12.3	- 80.5	.002424	.18
	3.3196	2.3891	9.0	63.4	.002183	• 09
	3.2884	2.0371	21.4	- 48.8	.002441	•56
	3.2708	1.6774	10.1	- 36.9	.002441	.12
1071 20	2.1406	3.5830	29.4	19.7	.002451	1.06
1071.20	2.26.33	2.3608	49.5	118.6	.002497	3.07
	2.2943	2.5696	17.7	116.6	.002341	.37
	2.3102	2.2264	37.1	115.2	.002292	1.58
	2.3062	1.8115	50.8	103.5	.002292	2.96
	2.5536	3.6170	49.4	163e7	.002821	3.45
	2.6055	2.7990	32.7	115.0	.002707	1.45
	2.6155	2.4838	8.4	135.0	.002742	.10
	2.6414	2.1666	57.7	128.0	.002664	4.44
	2.6414	1.7556	62.1	112.5	•002664	5.13
	2.9167	3.6010	4.4	26.6	.002714	.03
	2.9207	2.8070	31.3	124.7	.002513	1.23
	2.9207	2.4658	26.6	138.0	.002264	,80
	2.9476	2.1167	42.8	123.7	.002406	2.20
	2.9446	1.7476	41.1	125.2	.002406	2.04
	3.2738	3.6090	40.8	157.2	.002714	2.25
	3.2758	2.7810	35.2	141.8	.002513	1.56
	3.2618	2.4339	31.3	145.3	.002264	1.11
	3.2539	2.0928	34.0	125.5	•0u2406	1.39
	3.2279	1.7277	41.1	125.2	.002406	2.04

Table B-IV. Rear-Upper Grid Calculations - Model 35 (Continued)

****	X	Y	U	THETA	DENSITY	Q
TIME	INCHES	INCHES	FT/SEC	DEGREES	SLUGS/CUFT	LB/SQFT
MICROSEC	LACHES	LACHES	117320			
1119 6	2.2151	3.6266	98.2	170.5	.002588	12.47
1112.40	2.3030	2.8563	16.3	- 82.9	.002303	.30
	2.3284	2.5298	14.3	-171.9	.002405	.24
	2.3324	2.2151	15.4	156.8	.002405	.28
	2.3245	1.8006	7.3	-123.7	·002405	• 96
	2.5826	3.6070	54.8	173.7	.002747	4.13
	2.6452	2.8172	10.1	126.9	.002654	.14
	2.6530	2.4946	34.4	93.4	.002650	1.56
	2.6530	2.1681	42.8	109.3	•0u2569	2.44
	2.6549	1.7771	31.6	116.6	.002669	1.33
	2.9697	3.6149	20.3	84.3	.002784	.57
	2.9599	2.8055	26.3	- 94.4	.002440	, 84
	2.9580	2.4575	7.3	56.3	.002276	.06
	2.9619	2.1075	24.4	114.4	.002436	• 72
	2.9619	1.7341	19.0	122.0	.002436	,44
	3.3060	3.6227	38.8	-171.0	.002784	2.10
	3.3060	2.7820	41.5	-150.9	.002440	2.11
	3.2942	2.4066	38.1	-148.0	.002276	1.65
	3.2688	2.0645	32.8	-169.4	.002436	1.31
	3.2473	1.7107	28.7	-129.3	.002436	1.00
1153.60	2.0449	3.5990	63.7	-126,2	.002300	4.66
1173960	2.2643	2.8449	44.2	-100.3	•0ŭ2635	2.57
	2.2803	2.5676	31.7	-176.4	.002328	1.17
	2.2963	2.2324	25.7	180.0	.0ú2264	• 75
	2.3022	1.8055	36,8	~126.3	.002264	1.53
	2.4998	3.6229	38,4	-124.5	.002528	1.86
	2.5995	2.8070	44.4	-159.1	.002932	2.89
	2.6135	2.5177	33.8	-173.3	•0u2785	1.60
	2.6274	2.2065	14.0	-171.9	.0u2571	•25
	2.6274	1.7835	18.7	-148.0	.002571	.45
	2.9187	3,6209	78.4	-146.3	.002920	8,98
	2.9187	2.7810	75.5	-137.1	·002932	8.37
	7.9247	2.4718	46.0	-154.5	.002592	2.74
	2.9327	2.1387	40.0	171.5	.002460	1,97
	2.9347	1.7636	11.9	180.0	.002460	•17
	3.2359	3.6030	38.9	-114.0	.002920	2.21
	3.2399	2.7611	21.8	-174.8	.002932	.70
	3.2299	2.4140	26.0	-171.3	•002592	.88
	3.2219	2.0868	12.7	128.7	•002460	.20
	3.2100	1.7057	28.8	-105.9	•0ÿ2460	1.02

Table B-V. Rear-Upper Grid Calculations - Model 35 with Baffle

TIME	X	Y	U	THETA	DENSITY	Q
MICROSEC	INCHES	INCHES	FT/SEC	DEGREES	SLUGS/CUFT	LB/SQFT
MICKOJEC	1.10116					
16.70	2.1183	3.5992	19.8	~ 84.3	.002295	•45
10010	2.1183	2.6794	10.6	68.2	.002294	•13
	2.1183	2.3664	16.9	69.4	.002196	.31
	2.1374	2.0420	34.4	~113.6	.002236	1.33
	2.1622	1.6851	38,3	-101.9	.002236	1.64
	2.4962	3.6240	31.8	- 97.1	•0¢2098	1.06
	2.4790	2.6813	17.6	- 63.4	.002080	• 32
	2.4580	2.3702	30.6	- 75.1	.002413	1.13
	2.4351	2.0611	11.5	149.0	•002118	• 14
	2.4389	1.6947	48.5	-116.6	•0ú2118	2.49
	2.9198	3.6126	12.6	-141.3	.002517	• 26
	2.8550	2.7004	29.3	-137.7	.002151	. 92
	2.8397	2.3721	34.4	-113.6	.002524	1.50
	2.8397	2.0458	14.4	-164.1	.002411	•25
	2.8435	1.6908	18.2	-139.4	.002411	.40
	3.2729	3.6107	31.6	- 93.6	.002517	1.26
	3.2519	2.7385	21.3	- 56.3	.002151	• 49
	3.2481	2.3912	30.9	- 63.4	.002524	1.20
	3.2691	2.0496	28.2	-102.1	.002411	• 96
	3.3282	1.6794	49.9	161.6	.002411	3.00
57.60	2.1142	3.5895	46.2	67.8	.002387	2.55
	2.1142	2.6680	22.2	- 37.9	.002279	• 56
	2.1142	2.3504	26.2	- 48.0	.002260	• 77
	2.1220	2.0368	11.0	- 45.0	.002193	.13
	2.1516	1.6651	19.1	- 66.0	.002193	.40
	2.4705	3.5876	16.6	20.6	.002450	+34
	2.4724	2.6583	29.7	- 31.6	.002397	1.06
	2.4530	2.3427	33.1	- 28.1	.002642	1.44
	2.4182	2.0387	47.5	- 35.0	.002141	2.41
	2.4105	1.6457	36.9	- 71.6	.002141	1-46
	2.8287	3.5973	23.7	145.0	•002213	•62
	2.7977	2.6680	21.6	-123.7	•002092	• 46
	2.7996	2.3582	11.0	-135.0	.002325	-14
	2.7977	2.0329	16.7	-125.5	•002506	• 35
	2.7977	1.6728	22.7	-121.0	•002506	ه 64 عد
	3.2236	3,5857	17.9	12.5	•002213	• 36 • 82
	3.2372	2.6951	28.0	- 56,3	.002092	
	3.2391	2.3698	20.7	- 41.2	.002325	•50
	3.2507	2.0136	35.7	- 60.6	•002506	1.60 1.44
	3.2643	1.6805	34.0	-113.6	•002506	1477

Table B-V. Rear-Upper Grid Calculations - Model 35 with Baffle (Continued)

TIME	X	Y	U	THETA	DENSITY	Q
MICROSEC	INCHES	INCHES	FT/SEC	DEGREES	SLUGS/CUFT	LB/SQFT
98.50	2.1355	3.6412	8.4	135.0	.062187	. 08
	2.1355	2.6660	35.1	- 51.8	.002213	1.36
	2.1355	2.3473	30.7	- 45.0	.0ú2060	• 97
	2.1450	2.0344	25.7	- 4,4	·002065	.68
	2.1698	1.6679	19.4	24.0	. 002065	• 39
	2.5115	3.6298	27.7	- 4.1	.002239	. 86
	2.5038	2.6660	17.6	-116.6	•0u2336	. 36
	2.4866	2.3550	3.9	180.0	, 002632	• 02
	2.4733	2.0344	39.4	- 36.9	.0ú2279	1.77
	2.4504	1,6603	43.3	24.2	.002279	2.13
	2.9098	3.6260	31.6	- 3.6	·002247	1.12
	2.8435	2.6632	25.7	- 4.4	.002084	•69
	2.8321	2.3645	23.8	~ 48.4	•002306	• 65
	2.8302	2.0324	19.4	- 24.0	.002331	. 44
	2.8321	1.6718	20.3	- 29.1	.002331	.48
	3.2901	3.6145	39.5	- 2.9	.002247	1.75
	3.2672	2.7156	24.4	14.C	.002084	. 62
	3.2634	2.3779	8.1	- 14.0	•0u2306	8Ü•
	3.2863	2.0191	4.4	153.4	.002331	• 02
	3.3149	1.6489	37.2	- 58.0	.092331	1.61
139.40	2.1084	3.5954	58.8	- 7.6	.0u2316	4.01
	2.1355	2.6409	49.0	- 6.8	.002550	3.06
	2.1355	2.3291	41.0	- 31.4	·0u2317	1.95
	2.1471	2.0348	30.2	14.9	•0u2239	1.02
	2.1684	1.6728	26,1	- 26.6	.002239	- 76
	2,4976	3.5857	12.3	18.4	.002311	•17
	2.4647	2.6428	5.8	89.9	.002224	• 04
	2.4492	2.3427	16.5	- 45.0	•002564	• 35
	2.4492	2.0155	24.4	- 61.4	•002364	.70
	2.4492	1.6631	21.5	- 5.2	•002364	• 55
	2.8596	3,5954	1i.0	-135. ∂	.002208	•13
	2.8228	2.6660	38.5	45.0	«002046	1.52
	2.8151	2.3408	15.7	- 7.1	.002451	• 30
	2.8151	2.0252	15.7	- 7.1	.0ú2440	. 3Û
	2.8151	1.6631	14.8	23.2	.002440	.27
	3.2623	3.5837	45.5	160.0	•0ù22ü8	2.29
	3.2604	2.7009	34.0	156.4	. 002046	1.18
	3.2469	2.3679	19.8	-168.7	.002451	.48
	3.2469	2.0155	19.8	101.3	.002440	48
	3.2836	1.6496	15.7	29.7	. 0J2440	.30

Table B-V. Rear-Upper Grid Calculations - Model 35 with Baffle (Continued)

TIME	X	Y	U	THETA	DENSITY	Q
MICROSEC	INCHES	INCHES	FT/SEC	DEGREES	SLUGS/CUFT	LB/SQFT
180.30	2.1927	3.6336	28.2	12.1	.002507	1.00
	2.1832	2.6603	38.3	34.5	·0u2336	1.71
	2.1698	2.3263	44.1	26.6	.002256	2.19
	2+1737	2.0420	33.5	- 28.1	.002133	1.20
	2.1927 .	1.6565	45.9	- 25.5	.002133	2.24
	2.5229	3.6336	23.8	41.6	.002259	• 64
	2.5038	2.6718	46.0	31.0	.002088	2.21
	2.4981	2,3435	46.4	- 12.3	.002569	2.77
	2.4847	2.0134	31.8	- 60.3	.002379	1.20
	2.4714	1,6584	19.8	- 84.3	.002379	•47
	2.8931	3.5183	5.8	- 26.6	•932577	.10
	2.8792	2.7099	27.4	30.3	.002181	• 82
	2.8473	2.3626	19.7	• 9	.002535	•49
	2.8454	2.0305	12.0	- 80.5	•00£365	.17
	2.8454	1.6775	12.9	- 80.5	.002365	•17
	3.2481	3.6298	16.7	135.0	.002577	• 36
	3.2366	2.7290	33.1	107.4	.9ú2181	1.19
	3.2443	2.3740	12.5	71.6	.002535	.20
	3.2824	2.9382	37.9	38.7	·0ú2365	1.70
	3.3282	1.6565	33.8	6.7	.002365	1.35
221.20	2.1355	3.6012	19.5	5.7	.002351	• 45
	2.1665	2.662l	35.0	33.7	.002362	1.45
	2.1742	2.3485	47.0	24.4	.002158	2.38
	2.1762	2.0194	56.4	- 46.4	.002475	3.93
	2.2091	1.6534	30.4	- 26.6	·002475	1.15
	2.5150	3.6012	45.5	- 20.0	.002423	2.51
	2.5034	2.6660	44.7	•0	.002193	2.19
	2.4937	2.3330	42.1	33.7	.002599	2.30
	2.4547	1.9884	51.0	40.4	.002437	3.17
	2.4511	1.6438	42.7	30.1	.002437	2.22
	2.8674	3.5915	43.5	26.6	.002404	2.27
	2.8451	2.6796	19.1	- 24.0	.002063	• 38
	2.8345	2,3408	31.3	7.1	.002417	1.19
	2.8170	2.0136	25.6	- 8.7	.002227	• 73
	2.8170	1.6515	24.0	- 14.0	002227	•64
	3.2507	3,5954	57.2	- 17.8	.002404	3.93
	3.2507	2.7318	53.4	10.5	.002063	2.94
	3.2507	2.3795	70.8	15.9	.002417	6.05
	3.2759	2.0387	46.2	- 22.2	.002227	2.38
	3.3166	1.6534	48.8	4.6	.002227	2.65

Table 8-V. Rear-Upper Grid Calculations - Model 35 with Baffle (Continued)

TIME	X	Υ	U	THETA	DENSITY	0
MICROSEC	INCHES	INCHES	FT/SEC	DEGREES	SLUGS/CUFT	LB/SQFT
262.10	2.2118	3.6355	23,8	- 41.6	•002407	• 68
202410	2.2118	2.6794	56.5	- 29.2	.002389	3.82
	2.2118	2.3454	69.5	- 34.6	.002117	5.11
	2.2118	2.0019	71.5	- 39.4	.002145	5.48
	2.2195	1.6431	29.1	- 61.7	.002145	.91
	2.5649	3.6183	30.2	- 11.3	.002346	1.07
	2.5477	2.6718	46.8	- 27.6	.002294	2.51
	2.5324	2.3664	51.4	- 4.4	·0U2635	3.49
	2.5229	2.0458	62.7	12.7	.002418	4.75
	2.5076	1.6794	30.8	- 39.8	.002418	1.15
	2.9313	3.6374	37.9	- 27.9	.002411	1.73
	2.8874	2.7023	33.1	- 17.4	.002053	1.12
	2.8779	2.3664	29.6	- 36.9	.002238	• 98
	2.8702	2.0267	36.7	- 36.3	.002323	1.56
	2.8683	1.6718	46.6	- 36.4	•0u2323	2.52
	3.3015	3.6126	22.1	- 63.4	.002411	.59
	3.2882	2.7385	31.2	- 71.6	.002053	1.00
	3.3111	2.3931	53.1	- 31.3	.002238	3.15
	3.3244	2.0210	45.9	- 64-5	.002323	2.44
	3.3760	1.6603	35.1	- 51.8	.002323	1.43
303-00	2.1530	3.5857	9.9	-101.3	•002303	.11
	2.2149	2.6350	62.0	- 48.8	.002431	4.67
	2.2304	2.3098	43.7	- 32.3	.002207	2.11
	2.2304	1.9748	41.7	- 27.8	•002363	2.06
	2.2227	1.6283	53.4	- 56.9	.002363	3.37
	2.5440	3.5954	62.7	- 7.1	.002433	4.78
	2.5440	2.6447	35.2	- 6.3	•0u2351	1.46
	2.5440	2.3291	56.4	- 43.6	• 902882	4.58
	2.5247	2.0019	54.7 75.1	~ 83.9 - 79.6	•0u2364	3.54
	2.4743	1.6244 3.5741		- 19.6 - 29.7	.0U2364	6.67
	2.9003	2.6699	31.3 43.7	~ 32.3	•002545 •002038	1.25 1.95
	2•8771 2•8577	2.3233	47.5	- 35.0		2.62
	2.8461	1.9923		- 30.3	•0u2328 •0u2313	
	2.8538	1.6244	54.0 62.6	- 53.8	•002313	3.37 4.53
	2.0530 3.2604	3.5760	5.5	45.0	• 002313 • 3ú2545	.04
	3.2604	2.7028	18.3	- 58.0	•002545	. 34
	3.2953	2.7026	37.4	- 99.0	•002038	1.63
	3.2953	1.9981	37.1	- 84.0	•002313	1.60
	3.3379	1.6263	37.7	-124.5	•9,2313	1.65
	70 3 3 4 7	10003	2101	****	# 1 1C 2 E 2	1.07

Table B-V. Rear-Upper Grid Calculations - Model 35 with Baffle (Continued)

TIME	x	Y	U	THETA	DENSITY	Q
MICROSEC	INCHES	INCHES	FT/SEC	DEGREES	SLUGS/CUFT	LB/SQFT
			.,,,,,,		00000,000.	
343.90	2.2099	3.6260	22.1	10.3	.002186	•53
•	2.2519	2.6336	45.9	-154.5	.002356	2.48
	2.2481	2.3225	69.7	- 81.9	.002173	5.28
	2.2481	1.9828	50.4	- 59.4	.002188	2.78
	2.2481	1.5992	79.3	~ 55.1	. 0u2188	5.89
	2.6260	3.6107	15.4	- 39.8	.002452	.29
	2.5821	2.6679	42.5	- 21.8	.002163	1.95
	2.5725	2.3282	39.1	- 45.0	·0u2447	1.87
	2.5286	1.9924	57~3	- 63.4	.002102	3.45
	2.5210	1.6069	83,4	- 23.6	.002102	7.40
	2.9580	3.6221	26.5	42.0	•0ú2541	.89
	2,9237	2.6794	39.9	- 32.9	.002167	1.73
	2.9160	2.3397	45.5	5.0	.002478	2.57
	2.9160	2.0000	46.0	- 31.0	.002527	2.67
	2.9046	1.6221	44.3	- 57.7	•002527	2.48
	3.3053	3.6164	45.4	34.4	.002541	2.62
	3.2977	2.7233	57.6	- 38.0	-002167	3.60
	3.3053	2.3569	23.8	- 24.4	.002478	.70
	3.3282	1.9847	48.5	- 63.4	.002527	2.97
	3.3550	1.6298	29.3	-137.7	·002527	1.09
384.80	2.1742	3.5895	12.4	- 51.3	.002070	•16
	2.1742	2.6157	66.1	•0	.001919	4.19
	2.2401	2.2420	73.9	- 54.6	.002150	5.87
	2.2556	1.9322	25.3	- 32.5	.002214	.71
	2.2672	1.5644	31.6	- 10.6	.002214	1.11
	2.5557	3.5857	39.7	168.7	. 002369	1.86
	2-5828	2.6292	27.6	- 39.3	•002361	• 90
	2.5712	2.3020	27.8	- 65.2	• 002565	•99
	2.5499	1.9516	41.6	- 3î•4	•002518	2.18
	2.5499	1.5915	41.2	- 8.1	•002518	2.14
	2.9197	3.5915	24.4	-151.4	.002319	•69
	2.9100	2,6486	27.0	-149.7	•002232	-81
	2.9022	2.3272	41.2	-135.0	.002242	i.91
	2.8848	1.9690	42.6	-155.8	.002512	2.28
	2.8771	1.5876	40.0	-150.9	.002512	2.01
	3.2972	3.6012	7.0	- 33.7	•002319	.06
	3.3049	2.6680	47.0	- 82.9	.002232	2.47
	3.3166	2.3427	22.5	- 45.0	.002242	•54
	3.3166	1.9555	13.7	- 8.i	.002512	: 24
	3.3166	1.6070	45.3	- 59.0	•002512	2.58

Table B-V. Rear-Upper Grid Calculations - Model 35 with Baffle (Continued)

TIME	X	Y	U	THETA	DENSITY	O
MICROSEC	INCHES	INCHES	FT/SEC	DEGREES	SLUGS/CUFT	LB/SQFT
						_
425.70	2.2176	3.6104	18.2	49.4	.002461	.41
	2.3168	2.6336	148.2	10.0	.002423	26.61
	2.2901	2.2634	67.5	37.9	·0u2414	5.49
	2.2691	1.9635	27.5	69 . 0	.Qu2183	. 82
	2.2786	1.5935	24.7	61.4	·002183	•67
	2.5878	3.6183	8.8	63.4	.002515	.10
	2.6031	2.6508	29.3	42.3	.002387	1.03
	2.5840	2.3034	22.1	10.3	.012934	.71
	2.5611	1.9676	32.8	32.7	.002647	1.43
	2.5611	1.6011	25.9	98.7	. 0u2647	.89
	2.9370	3,6107	13.2	63.4	.002303	.20
	2°900H	2.6660	8.4	45.0	•0ú2022	.07
	2.8874	2.3111	17.0	- 54.5	·0ú2293	.33
	2.8779	1.9828	25.3	51.3	.0ú2134	-68
	2.8702	1.6031	4ü•5	47,0	.002134	1.75
	3.3111	3.6126	22.1	79.7	.002303	.56
	3.3034	2.6775	43.4	78.2	.002022	2.36
	3.3206	2.3416	16.3	104.3	.002293	. 30
	3.3416	1.9828	19.7	90.0	·0u2134	.42
	3.3779	1.5916	49.3	- 2.3	.902134	2,60
466.60	2.1859	3.6031	90.2	7,4	.202507	10,20
	2.3175	2.6409	36.3	74.5	.002445	1.61
	2.2924	2.2827	45.5	70.C	.002197	2.27
	2.2652	1.9574	31.3	29.7	.002225	1.09
	2.2788	1.5857	26.4	72.9	+0u2225	.78
	2.5595	3.5934	35.0	33.7	.002423	1.49
	2.6041	2.6486	24.4	61.4	.002533	•69
	2,5924	2.3059	44.8	55.6	.062839	2.84
	2.5770	1.9690	22.2	15.3	.002508	• 62
	2.5460	1.6167	11.3	-121.0	.002508	•16
	2.9255	3.6031	23.4	4.8	.002337	.64
	2.9158	2.6544	39.4	20.2	•002098	1.63
	2.9119	2.3136	59.3	41.0	.002443	4.29
	2.9003	1.9884	37.0	3.0	.002461	1,68
	2.9042	1.6167	30.4	39.8	·002461	1.13
	3.3011	3.6225	11.3	31.0	.002337	.15
	3.3146	2.7144	60.6	84.5	•0ú2098	3.85
	3,3127	2.3582	31.6	47.5	.002443	1.22
	3.3166	1.9748	19.8	- 78.7	.002461	.48
	3.3650	1.6050	32.2	115.0	.002461	1.27

Table B-V. Rear-Upper Grid Calculations - Model 35 with Baffle (Continued)

						•
TIME	X	Y	U	THETA	DENSITY	Q
MICROSEC	INCHES	INCHES	FT/SEC	DEGREES	SLUGS/CUFT	LB/SUFT
507.50	2.3053	3.6279	92.2	- 41.5	.002735	11.63
	2.3253	2.6679	55.8	- 81.9	.002445	3.81
	2.3053	2.3053	63.7	- 73.8	.002193	4,44
	2.2958	1.9847	61.9	- 59.3	.0ú2233	4.28
	2.2863	1.6183	49.7	- 96.8	.002233	2.75
	2.6164	3.6374	61.9	- 22.5	.002459	4,71
	2.6145	2.6718	32.1	- 79.4	·0u2356	1.21
	2,6088	2.3347	26.3	- 77.0	002526	.87
	2.5821	1.9733	33.8	- 83.3	.002490	1,42
	2.5553	1.5916	33.5	- 45.0	. 002490	1.39
	2.9599	3.6126	35.0	- 73.6	.002531	1.55
	2,9370	2.6794	17.9	6.3	•0u2118	• 34
	2.9313	2.3492	8.1	- 14.0	•0ú2195	• 07
	2.9141	1.9847	50.3	-101.3	•002506	3.17
	2.8931	1.6221	29.1	-118.3	•002506	1.06
	3.3206	3.6183	65.4	- 84.8	•0ù2531	5.41
	3.3092	2.7366	51.8	-107.7	.002118	2 . 84
	3.3416	2.3645	28.2	-102.1	•0û2195	. 88
	3.3454	1.9637	7.1	33.7	•0ù2506	• 06
	3.3645	1.6202	24.1	-145.0	•002506	•73
548.40	2.2536	3.5431	148.1	-176.2	.002549	27.94
	2.3253	2.5866	30.4	- 63.4	.002511	1.16
	2.3098	2.2227	54.5	- 88.0	.002354	3.49
	2.2962	1.9051	55.3	- 79.9	•002272	3.47
	2.2730	1,5373	60.9	-116.6	•002272	4.21
	2.6157	3.5702	22.8	-160.0	•002593	.67
	2.6099	2.6176	11.3	- 31-0	.002299	. 15
	2.5983	2.280T	47.0	- 97.1	•0 0 2677	2.96
	2.5808	1.9361	75.7	-138.1	.002834	8.12
	2.5692	1.5934	READINGS			
	2.9351	3.5702	9.7	180.0	•002522	•12
	2.9332	2.6563	15.7	-144.5	.002233	• 32
	2.9197	2.3117	24.7	-135.0	.002387	• 73
	2.8906	1.9400	23,7	-170.5	.002445	•68
	2.8906	1.5915	19.4	-143.1	•002445	.46
	3.3069	3.5586	8.7	-153.4	.002522	.10
	3.2991	2.6660	42.0	-103.4	.002283	2.01
	3.3069	2.3311	27.8	-114.8	.002387	•92
	3.3224	1.9787	31.2	93.6	.002445	1.19
	3.3456	1.5915	25.3	-147.5	•002445	. 79

Table B-V. Rear-Upper Grid Calculations - Model 35 with Baffle (Continued)

TIME	X	Y	u	THETA	DENSITY	Q
MICROSEC	INCHES	INCHES	FT/SEC	DEGREES	SLUGS/CUF1	LB/SQFT
589.30	2.1663	3.6183	READINGS			
	2.3397	2.6412	76 s 1	36.6	•0u2288	6.63
	2.3073	2.2519	39.7	26.6	.002500	1.97
	2.3053	1.9313	13.8	• 0	READINGS	
	2.2595	1.5649	15.1	11.3	READINGS	
	2.5954	3.6298	15.8	• 0	·042443	.31
	2.6243	2,6660	მ∙ 4	45.U	.002327	.08
	2.6031	2.2939	17.0	-144.5	•002524	• 36
	2.5267	1.9237	10.6	111.8	READINGS	INVALID
	NO READI	NG				
	2.9504	3.6176	33.8	173.5	·0u2448	1.40
	2.9237	2.6698	19.5	135.0	.002121	.40
	2.9141	2.3321	10.6	-158.2	.002338	.13
	2.8912	1.9809	24.7	61.4	.002297	. 70
	2.8779	1.6107	12.0	- 9.5	.002297	.17
	3.3130	3,6145	29.3	13243	3002448	1.05
	3.2996	2,6966	25.6	67.4	.002121	.70
	3.3302	2.3397	6.2	- 71.6	•0u2338	.05
	3.3435	1.9943	13.9	- 98.1	.002297	.22
	3.3435	1.6069	27.5	159.0	.002297	.87
630.20	NO READI	NG				
	2.3853	2.6312	35.0	- 19.4	.002879	1,77
	2.3446	2.2401	43.5	- 10.3	.002672	2.52
	2.3098	1.9051	17.4	-116.6	。002488	.38
	2.2827	1.5392	13.0	~ 26.6	.002488	.21
	2.6312	3.5702	15.6	•0	.002922	.35
	2.6157	2.6234	48.6	2.3	·0u2255	2.67
	2.5847	2.2711	31.1	• C	.0u2765	1.34
	2.5770	1.9458	59.2	23.2	•002350	4.12
	2.5247	1.5663	READINGS	INVALID		
	2.9022	3.5741	34.6	38.2	.002416	1.45
	2.9197	2.6649	35.2	6.3	.002043	1.27
	2.9100	2.30/8	19.8	11.3	.002448	.48
	2.9022	1.9613	19.4	- 53.1	.002596	.49
	2.9022	1.5895	16.0	76.0	.002596	• 33
	3.2875	3.5799	27,6	39.3	.002416	• 92
	3.3988	2.6893	65.8	19.0	.0ú2043	4.42
	3.3088	2.3253	31.7	55.5	.002448	1.74
	3.3204	1.9652	15.2	- 39.8	.002596	30 ه
	3e3204	1.6012	34.0	59.0	.062596	1.50
				. •		

Table B-V. Rear-Upper Grid Calculations - Model 35 with Baffle (Continued)

MICROSEC INCHES INCHES FT/SEC DEGREES SLUGS/CUFT LB/SQFT 671.10 2.2290 3.6145 READINGS INVALID 2.3721 2.6298 66.3 - 53.5 .002288 5.02 2.3492 2.2443 11.8 - 90.0 .002367 .17 2.2977 1.9160 10.1 - 11.3 .002403 .12 2.2710 1.5592 .0 .0 .0 .002403 .00 2.6107 3.6298 21.3 33.7 .002479 .56 2.6718 2.6679 48.4 11.8 .002430 2.84 2.6336 2.2939 55.5 - 6.1 .002733 4.22 2.5802 1.9466 29.3 - 19.7 .002599 1.12 2.9771 3.6336 59.7 7.6 .002361 4.21 2.9780 2.6737 35.1 - 38.2 .002088 1.29 2.9332 2.3359 31.6 .0 .002155 1.07 2.9027 1.9656 4.4 -153.4 .002491 .02 2.8817 1.6260 15.8 180.0 .002491 .02 2.8817 1.6260 15.8 180.0 .002491 .31 3.3340 3.6317 33.1 17.4 .002361 1.29 3.3507 2.7176 22.5 - 15.3 .002088 .53 3.3550 1.9847 29.3 47.7 .002491 .07 3.3607 1.6355 41.8 19.3 .002491 2.18 712.00 NO READING READINGS INVALID 4240 2.5789 53.4 - 10.5 .002687 3.83 .3446 2.2285 17.6 - 96.3 .002239 .98 2.2827 1.5392 38.9 - 53.1 .002339 .98 2.2827 1.5392 38.9 - 53.1 .002339 .98 2.2827 1.5392 38.9 - 53.7 .002430 1.59 2.6681 3.5818 43.9 12.8 .002772 2.67 2.6646 3.5818 43.9 12.8 .002772 2.67 2.6621 2.6331 36.2 - 53.7 .002430 1.59 2.6389 2.2652 19.5 - 5.7 .002339 .98 2.2827 1.5392 38.9 - 53.1 .002339 .98 2.2827 1.5392 38.9 - 53.7 .002430 1.59 2.6621 2.6331 36.2 - 53.7 .002430 1.59 2.6621 2.6331 36.2 - 53.7 .002430 1.59 2.6621 2.6331 36.2 - 53.7 .002430 1.59 2.6621 2.6331 36.2 - 53.7 .002430 1.59 2.6621 2.6331 36.2 - 53.7 .002430 1.59 2.6621 2.6331 36.2 - 53.7 .002430 1.59 2.6621 2.6331 36.2 - 53.7 .002430 1.59 2.6621 2.6331 36.2 - 53.7 .002430 1.59 2.6621 2.6486 20.9 68.2 .002540 .14 2.9603 3.5818 17.4 - 63.4 .002464 .37 2.9668 2.6486 20.9 68.2 .002540 .14 2.9603 3.5818 17.4 - 63.4 .002464 .37 2.9909 2.3078 21.5 - 5.2 .002455 .57 2.8984 1.9931 19.2 45.0 .002356 .44 2.9867 1.5895 37.4 - 27.9 .002556 .64 3.3301 2.6834 14.2 - 164.1 .002148 .22 3.33379 2.3272 25.6 - 98.7 .002455 .80	TIME	X	Y	U	THETA	DENSITY	Q
671.10 2.2290 3.6145 READINGS INVALID 2.3721 2.6298 66.3 - 53.5 .002288 5.02 2.3492 2.2443 11.8 - 90.0 .002367 17 2.2771 1.5592 0 .0 .0 .002403 00 2.6107 3.6298 21.3 .33.7 .002479 .56 2.6718 2.6679 48.4 .11.8 .002430 2.6336 2.2939 55.5 - 6.1 .002733 4.22 2.5802 1.9466 29.3 - 19.7 .002599 1.12 2.5267 1.5763 21.2 - 68.2 .002298 5.9 2.9771 3.6336 59.7 .7.6 .002361 4.21 2.9580 2.6737 35.1 - 38.2 .002088 1.29 2.9332 2.3359 31.6 .0 .002155 1.07 2.9027 1.9656 4.4 - 153.4 .002491 3.3340 3.6317 3.3311 3.3340 3.6317 3.3311 3.3340 3.6317 3.3351 2.3702 29.7 .3.8 .002155 .95 3.3551 2.3702 29.7 .3.8 .002155 .95 3.3550 1.9847 29.3 .47.7 .002298 53.3 712.00 NO READING NO READING NO READING REAUINGS INVALID 1.07 2.6486 3.5818 4.9 .9 .3 .47.7 .002491 2.18 REAUINGS INVALID 1.07 2.6486 3.5818 4.9 .9 .3 .47.7 .002239 98 2.2827 1.5392 2.88.9 - 47.7 .002339 2.898 2.2827 1.5392 38.9 - 53.1 .002339 1.77 2.6486 3.5818 4.9 .9 .53.7 .002491 2.67 2.6621 2.6331 3.6-2 - 53.7 .002491 2.67 2.6621 2.6331 3.6-2 - 53.7 .002239 .98 2.2827 2.6389 2.2652 19.5 - 5.7 .002030 3.83 1.77 2.6486 3.5818 17.4 - 63.4 .002464 3.70 2.9409 2.3078 2.15.5 - 5.2 .002455 .57 2.8984 1.9993 1.92 4.50 0.002465 .44 2.9409 2.3078 2.160 1.65 3.3185 3.3595 3.4-21 3.46 2.9409 2.3078 2.5867 2.6887 2.6887 2.6887 2.7909 2.3078 2.5272 2.6887 2.6987 2.6984 2.9909 2.3078 2.1-5-7-9 2.6646 3.33001 2.6834 14.2 - 164-1 0.002464 0.04 3.33011 2.6834 14.2 - 164-1 0.002465 0.002455 0.002455 0.002455 0.002455 0.002455 0.002455 0.002455 0.002455 0.002455 0.002455 0.002455 0.002455 0.002465 0.002466 0.002466 0.002465 0.002465 0.002465 0.002465 0.002465 0.002465 0.002465 0.002466 0.0024		INCHES					
2.3721							
2.3492 2.2443 11.8 - 90.0 .002367 .17 2.2977 1.9160 10.1 - 11.3 .002403 .12 2.2710 1.5592 .0 .0 .002479 .56 2.6107 3.6298 21.3 33.7 .002479 .56 2.6718 2.6679 48.4 11.8 .002430 2.84 2.6336 2.2939 55.5 - 6.1 .002733 4.22 2.5802 1.9466 29.3 - 19.7 .002593 1.12 2.5267 1.5763 21.2 - 68.2 .002598 .59 2.9771 3.6336 59.7 7 7.6 .002361 4.21 2.9580 2.6737 35.1 - 38.2 .002088 1.29 2.9332 2.3359 31.6 .0 .002155 1.07 2.9027 1.9656 4.4 - 153.4 .002491 .02 2.8817 1.6260 15.8 180.0 .002491 .31 3.3340 3.6317 33.1 17.4 .002491 .02 2.8817 1.6260 15.8 180.0 .002491 .31 3.3550 1.9847 29.3 47.7 .002491 1.07 3.3551 2.3702 29.7 3.8 .002088 .53 3.3551 2.3702 29.7 3.8 .002088 .53 3.3551 2.3702 29.7 3.8 .002088 .53 3.3550 1.9847 29.3 47.7 .002491 1.07 3.3697 1.6355 41.8 19.3 .002491 2.18 712.00 NO READING READING READING READING READING 1.72 2.6486 3.5818 43.9 12.8 .002339 1.77 2.6486 3.5818 43.9 12.8 .002772 2.67 2.6486 3.5818 43.9 12.8 .002772 2.67 2.6621 2.6331 36.2 - 53.7 .002339 .98 2.2827 1.5392 38.9 - 53.1 .002339 1.77 2.6486 3.5818 43.9 12.8 .002772 2.67 2.6621 2.6331 36.2 - 53.7 .002430 1.59 2.66389 2.2652 19.5 - 5.7 .003023 .58 2.6041 1.9361 48.6 - 73.7 .002540 3.00 2.5324 1.5470 10.5 - 68.2 .002540 .14 2.9469 2.3078 21.5 - 5.2 .002464 .37 2.9468 2.6486 20.9 68.2 .002148 .47 2.9469 2.3078 21.5 - 5.2 .002455 .57 2.8984 1.9593 19.2 45.0 .002356 .44 2.8867 1.5895 37.4 - 27.9 .002455 .57 2.8984 1.9593 19.2 45.0 .002356 .44 2.8867 1.5895 37.4 - 27.9 .002455 .57 2.8988 1.9597 37.4 - 27.9 .002455 .57 2.8988 1.9593 37.4 - 27.9 .002455 .65	671.10	2.2290	3.6145	READINGS	INVALID		
2.2977		2.3721	2.6298	66.3	- 53.5	.002288	5.02
2-2710 1.5592 .0 .0 .00.4043 .00 2-6107 3.6298 21.3 33.7 .002479 .56 2-6718 2.6679 48.4 11.8 .002430 2.84 2-6336 2.2939 55.5 - 6.1 .002733 4.22 2-5802 1.9466 29.3 - 19.7 .002599 1.12 2-5267 1.5763 21.2 - 68.2 .002598 .59 2-9771 3.6336 59.7 7.6 .002361 4.21 2.9580 2.6737 35.1 - 38.2 .002088 1.29 2-9332 2.3359 31.6 .0 .002155 1.07 2-9027 1.9656 4.4 -153.4 .002491 .02 2-8817 1.6260 15.8 180.0 .002491 .31 3-3340 3.6317 33.1 17.4 .002361 1.29 3-3607 2.7176 22.5 - 15.3 .002088 .53 3-3511 2.3702 29.7 3.8 .002155 .95 3-3550 1.9847 29.3 47.7 .002491 1.07 3-3607 1.6355 41.8 19.3 .002491 2.18 712.00 NO READING READING NOVELD 4240 2.5789 53.4 - 10.5 .002687 3.83 .3446 2.2285 17.6 - 96.3 .002367 .37 2 3195 1.9032 28.9 - 47.7 .002339 .98 2.2827 1.5392 38.9 - 53.1 .002339 1.77 2.6486 3.5818 43.9 12.8 .002772 2.67 2.6686 3.5818 43.9 12.8 .002772 2.67 2.6686 3.5818 43.9 12.8 .002772 2.67 2.6686 3.5818 43.9 12.8 .002772 2.67 2.6686 3.5818 43.9 12.8 .002772 2.67 2.6686 3.5818 43.9 12.8 .002772 2.67 2.6041 1.9361 48.6 - 73.7 .002540 3.00 2.5324 1.5470 10.5 - 68.2 .002540 3.00 2.5324 1.5470 10.5 - 68.2 .002540 3.00 2.5324 1.5490 2.3078 21.5 - 5.7 .0020256 .44 2.9409 2.3078 21.5 - 5.2 .002455 .57 2.8984 1.999 19.2 45.0 .002356 .44 2.8867 1.5895 37.4 - 27.9 .002256 .44 2.8867 1.5895 37.4 - 27.9 .002256 .44 2.8867 1.5895 37.4 - 27.9 .002256 .64 2.8867 1.5895 5.8 180.0 .002465 .00		2.3492	2.2443	11.8	- 90.0	.002367	.17
2.6107 3.6298 21.3 33.7 .002479 .56 2.6718 2.6679 48.4 11.8 .002430 2.84 2.6336 2.2939 55.5 - 6.1 .002733 4.22 2.5802 1.9466 29.3 - 19.7 .002593 1.12 2.5267 1.5763 21.2 - 68.2 .002598 .59 2.9771 3.6336 59.7 7.6 .002361 4.21 2.9580 2.6737 35.1 - 38.2 .002088 1.29 2.9332 2.3359 31.6 .0 .002155 1.07 2.9027 1.9656 4.4 - 153.4 .002491 .02 2.8817 1.6260 15.8 180.0 .002491 .02 2.8817 1.6260 15.8 180.0 .002491 .31 3.3340 3.6317 33.1 17.4 .002361 1.29 3.33607 2.7176 22.5 - 15.3 .002088 .53 3.3551 2.3702 29.7 3.8 .002155 .95 3.3550 1.9847 29.3 47.7 .002491 1.07 3.5697 1.6355 41.8 19.3 .002491 2.18 712.00 NO READING READING SINVALID .4240 2.5789 53.4 - 10.5 .002687 3.83 2.3195 1.9032 28.9 - 47.7 .002339 .98 2.2827 1.5392 38.9 - 53.1 .002339 .98 2.2827 1.5392 38.9 - 53.1 .002339 .98 2.2827 1.5392 38.9 - 53.1 .002339 1.77 2.6486 3.5818 43.9 12.8 .002772 2.67 2.6621 2.6331 36.2 - 53.7 .0022430 1.59 2.6389 2.2652 19.5 - 5.7 .003023 .58 2.6041 1.9361 48.6 - 73.7 .002540 3.00 2.5324 1.5470 10.5 - 68.2 .002540 3.00 2.5324 1.5470 10.5 - 68.2 .002540 3.00 2.5984 1.9993 19.2 45.0 .002356 .44 2.9409 2.3078 21.5 - 5.2 .002455 .57 2.8984 1.9993 19.2 45.0 .002356 .44 2.9409 2.3078 21.5 - 5.2 .002465 .57 2.8984 1.9993 19.2 45.0 .002356 .44 2.9867 1.5895 37.4 - 27.9 .002356 .44 2.8867 1.5895 37.4 - 27.9 .002256 .65 3.3185 3.5895 5.8 180.0 .002465 .60			1.9160	10.1	- 11.3	.002403	•12
2.6718		2.2710	1.5592		• 0	.002403	• 00
2.6336 2.2939 55.5 - 6.1 .002733 4.22 2.5802 1.9466 29.3 - 19.7 .002598 .59 2.9771 3.6336 59.7 7.6 .002361 4.21 2.9580 2.6737 35.1 - 38.2 .002088 1.29 2.9332 2.3359 31.6 .0 .002155 1.07 2.9027 1.9656 4.4 - 153.4 .002491 .02 2.8817 1.6260 15.8 180.0 .002491 .31 3.3340 3.6317 33.1 17.4 .002361 1.29 3.3607 2.7176 22.5 - 15.3 .002088 .53 3.3551 2.3702 29.7 3.8 .002155 .95 3.3550 1.9847 29.3 47.7 .002491 1.07 3.3607 1.6355 41.8 19.3 .002491 2.18 712.00 NO READING REAUINGS INVALID 4240 2.5789 53.4 - 10.5 .002687 3.83 . 3446 2.2285 17.6 - 96.3 .002367 .37 2 3195 1.9032 28.9 - 47.7 .00239 1.77 2.6486 3.5818 43.9 12.8 .002772 2.67 2.6486 3.5818 43.9 12.8 .002772 2.67 2.6389 2.2652 19.5 - 5.7 .002339 1.77 2.6486 3.5818 43.9 12.8 .002772 2.67 2.6389 2.2652 19.5 - 5.7 .002339 .58 2.6041 1.9361 48.6 - 73.7 .002540 3.00 2.5324 1.5470 10.5 - 68.2 .002540 .14 2.9603 3.5818 17.4 - 63.4 .002465 .57 2.8986 1.9593 19.2 45.0 .002356 .44 2.9409 2.3078 21.5 - 5.2 .002455 .57 2.8986 1.9593 19.2 45.0 .002356 .44 2.8867 1.5895 37.4 - 27.9 .002356 .44 2.8867 1.5895 37.4 - 27.9 .00256 1.65 3.3185 3.5895 5.8 180.0 .002465 .57 2.8986 1.5585 5.8 180.0 .002465 .65 3.3185 3.5895 5.8 180.0 .002465 .64		2.6107	3.6298		33.7	.002479	• 56
2-5802 1.9466 29.3 - 19.7 .002598 .59 2-5267 1.5763 21.2 - 68.2 .002598 .59 2.9771 3.6336 59.7 7.6 .002361 4.21 2.9580 2.6737 35.1 - 38.2 .002088 1.29 2.9332 2.3359 31.6 .0 .002155 1.07 2.9027 1.9656 4.4 - 153.4 .002491 .02 2.8817 1.6260 15.8 180.0 .002491 .31 3.3340 3.6317 33.1 17.4 .002361 1.29 3.3607 2.7176 22.5 - 15.3 .002088 .53 3.3511 2.3702 29.7 3.8 .002155 .95 3.3550 1.9847 29.3 47.7 .002491 1.07 3.3607 1.6355 41.8 19.3 .002491 2.18 712.00 NG READING REAUINGS INVALID .4240 2.5789 53.4 - 10.5 .002687 3.83 . 3446 2.2285 17.6 - 96.3 .002367 .37 2.3195 1.9032 28.9 - 47.7 .002339 1.77 2.6486 3.5818 43.9 12.8 .002772 2.67 2.6621 2.6331 36.2 - 53.7 .002430 1.59 2.6621 2.6331 36.2 - 53.7 .002430 1.59 2.6621 2.6331 36.2 - 53.7 .002540 3.00 2.5324 1.5470 10.5 - 68.2 .002540 3.6 2.9466 2.6486 20.9 68.2 .002540 .14 2.9603 3.5818 17.4 - 63.4 .002464 .37 2.9466 2.6486 20.9 68.2 .002540 .14 2.9603 3.5818 17.4 - 63.4 .002465 .57 2.8984 1.9593 19.2 45.0 .002356 .44 2.8867 1.5895 37.4 - 27.9 .00256 1.65 3.3185 3.5895 5.8 180.0 .002465 .64 3.3301 2.6834 14.2 -164.1 .002148 .22 3.3379 2.3272 25.6 - 98.7 .002455 .80		2.6718	2.6679		11.8	.002430	2,84
2.5267 1.5763 21.2 - 68.2 .002598 .59 2.9771 3.66336 59.7 7.6 .002361 4.21 2.9580 2.6737 35.1 - 38.2 .002088 1.29 2.9332 2.3359 31.5 .0 .002155 1.07 2.9027 1.9656 4.4 -153.4 .002491 .02 2.8817 1.6260 15.8 180.0 .002491 .31 3.3340 3.6317 33.1 17.4 .002361 1.29 3.3607 2.7176 22.5 - 15.3 .002088 .53 3.3511 2.3702 29.7 3.8 .002155 .95 3.3550 1.9847 29.3 47.7 .002491 1.07 3.3607 1.6355 41.8 19.3 .002491 2.18 712.00 NO READING READINGS INVALID .4240 2.5789 53.4 - 10.5 .002687 3.83 . 3446 2.2285 17.6 - 96.3 .002367 .37 2.3195 1.9032 28.9 - 47.7 .002339 .98 2.22827 1.5392 38.9 - 53.1 .002339 1.77 2.6486 3.5818 43.9 12.8 .002772 2.67 2.6621 2.6331 36.2 - 53.7 .002430 1.59 2.6389 2.2652 19.5 - 5.7 .003023 .58 2.6041 1.9361 48.6 - 73.7 .002540 3.00 2.5324 1.5470 10.5 - 68.2 .002540 .14 2.9603 3.5818 17.4 - 63.4 .002464 .37 2.9466 2.6486 20.9 68.2 .002540 .14 2.9603 3.5818 17.4 - 63.4 .002465 .57 2.8984 1.9593 19.2 45.0 .002356 .44 2.8867 1.5895 37.4 - 27.9 .002056 1.65 3.3185 3.5895 5.8 180.0 .002465 .00			2.2939		- 6.1	.002733	4.22
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2.9468 2.6486 20.9 68.2 .002148 .47 2.9409 2.3078 21.5 - 5.2 .002455 .57 2.8984 1.9593 19.2 45.0 .002356 .44 2.8867 1.5895 37.4 - 27.9 .002356 1.65 3.3185 3.5895 5.8 180.0 .002464 .04 3.3301 2.6834 14.2 -164.1 .002148 .22 3.3379 2.3272 25.6 - 98.7 .002455 .80							
2.9409 2.3078 21.5 - 5.2 .002455 .57 2.8984 1.9593 19.2 45.0 .002356 .44 2.8867 1.5895 37.4 - 27.9 .00256 1.65 3.3185 3.5895 5.8 180.0 .002464 .04 3.3301 2.6834 14.2 -164.1 .002148 .22 3.3379 2.3272 25.6 - 98.7 .002455 .80							
2.8984 1.9593 19.2 45.0 .002356 .44 2.8867 1.5895 37.4 - 27.9 .002356 1.65 3.3185 3.5895 5.8 180.0 .002464 .04 3.3301 2.6834 14.2 -164.1 .002148 .22 3.3379 2.3272 25.6 - 98.7 .002455 .80							
2.8867 1.5895 37.4 - 27.9 .002356 1.65 3.3185 3.5895 5.8 180.0 .002464 .04 3.3301 2.6834 14.2 -164.1 .002148 .22 3.3379 2.3272 25.6 - 98.7 .002455 .80							
3.3185 3.5895 5.8 180.0 .002464 .04 3.3301 2.6834 14.2 -164.1 .002148 .22 3.3379 2.3272 25.6 - 98.7 .002455 .80							
3.3301 2.6834 14.2 -164.1 .002148 .22 3.3379 2.3272 25.6 - 98.7 .002455 .80							
3,3379 2,3272 25.6 - 98.7 .002455 .80					-		
4.44DH 1.DHAG H.A - 14.A AA22KG AQ							
		3.3398	1.9864	8.0	- 14.0	.002356	• 08
3.3591 1.6147 27.8 - 12.1 .002356 .91		3.5591	1.014/	21.8	- 12.1	°002356	-91

Table B-V. Rear-Upper Grid Calculations - Model 35 with Baffle (Continued)

TIME	X	Y	Ü	THETA	DENSITY	Q
MICROSEC	INCHES	INCHES	FT/SEC	DEGREES	SLUGS/CUFT	LB/SOFT
752.90	NO READI	NG	READINGS	INVALID		
172470	2.4237	2.6202	31.8	- 60.3	. 302412	1.22
	2.3473	2.2271	42.2	- 52.6	.002138	1.90
	2.3168	1.8950	61.3	- 93.7	.002617	4,91
	2.2939	1.5286	37.5	- 87.0	.002617	1.84
	2.6527	3.6393	22.1	-116.6	.002669	• 65
	2.6927	2.6393	42,7	- 56.3	.002511	2.29
	2.6527	2.2920	36.4	- 49.4	.002657	1.76
	2.5935	1.9008	62,3	-101.0	·3u2526	4.90
	2.5305	1.5668	38.8	- 75.3	.002526	1.90
	2,9847	3.6183	14,4	- 15.9	.002514	. 26
	2.9656	2.6927	30.0	- 23.2	·JU2075	, 94
	2.9542	2.3340	19.8	- 84.3	.002348	.46
	2.9160	1.9790	41.4	- 90.0	.002399	2.06
	2.9141	1.6088	37,7	- 96.0	.002399	1.70
	3.3282	3.6317	14.2	-146.3	•0ú2514	.25
	3.3473	2.7137	8.8	-116.6	.002075	.08
	3.3473	2.3454	33.1	-107.4	-002348	1.28
	3.3626	1.9828	45.9	- 64.5	.002399	2.52
	3.3874	1.6299	35.5	- 90.C	.0 02399	1.51
793.80	NO READI	NG	READINGS	INVAL ID		
	2.4395	2.5518	66.4	- 58.2	.002657	5.85
	2.3598	2.1955	79.9	- 41.1	•0ú2232	7.13
	2.3156	1.8432	78.4	- 82.9	.002487	7.64
	2.2846	1.5024	48.8	- 94.6	.0J2487	2.96
	2.6389	3.5624	31.6	- 79.4	.002613	1.31
	2.6854	2.5983	31.2	- 86.4	•0v2524	1.23
	2.6621	2.2381	72.9	- 80.8	.002881	7.65
	2.5924	1.8761	15.2	- 50.2	•0u2643	.30
	2.5421	1.5102	67.9	- 66.4	•002643	6.09
	2.9739	3.5779	3.9	180.0	•002653	.02
	2.9739	2.6370	56.6	- 74.1	.002181	3,50
	2.9429	2.2885	45.1	- 82.6	.062322	2, 36
	2.8984	1.9187	74.1	- 94.5	•002332	6,40
	2.8829	1.5528	80.7	-105.4	.002332	7.58
	3.3069	3.5818	33.1	- 90.0	.002653	1,45
	3.3252	2.6757	16.0	-104.0	.002181	-28
	3.3282	2.2962	33.3	- 96.7	•002322	1.29
	3.3591	1.9458	39.4	-122.9	•9u2332	1.81
	3.3591	1.5799	64.0	-:09.5	•0u2332	4,77

Table B-V. Rear-Upper Grid Calculations - Model 35 with Baffle (Continued)

TIME	X	V	••	****	05.67.01	
MICROSEC	INCHES	Y Inches	U FT/SEC	THETA	DENSITY	Q
MICKOSEC	INCHES	LACHES	LIV2EC	DEGREES	SLUGS/CUFT	LB/SQFT
834.70	NO READI	NG	READINGS	INVALID		
	2.4580	2.5649	31.6	- 3.6	.002662	1.33
	2.4065	2.1756	73.0	- 71.1	.002521	6.71
	2.3263	1.8187	84.8	- 90.0	.002421	8.71
	2.2901	1.4809	55.5	- 73.5	.002421	3.73
	2.6584	3.6088	25.7	85.6	.002579	. 85
	2.6947	2.6088	44.3	- 69.1	.002374	2.33
	2.6641	2.2214	37.9	- 81.0	·002858	2.06
	2.6031	1.8893	28.2	- 77.9	.002551	1.02
	2.5573	1.5057	38.8	- 75.3	.002551	1.92
	2.9809	3.6183	18.7	71.6	1002517	.44
	2.9809	2.6393	32.5	- 76.0	.002138	1.13
	2.9599	2.2901	22.5	- 52.1	.002338	•59
	2.9103	1.9065	55.0	- 14.5	.002340	3.54
	2.8931	1.5324	37.7	- 84.C	•002340	1.66
	3.3282	3.5992	25.3	- 51.3	.002517	.80
	3.3435	2.6985	43.6	- 95.2	.002138	2.03
	3.3435	2.3130	31.9	-111.8	.002338	1,19
	3.3416	1.9504	64.0	-123.7	002340	4.79
	3.3664	1.5706	47.4	-106.9	.002340	2.63
875.60	NO READI		READINGS			
	2.4705	2.5499	31.6	- 10.6	•002608	1.31
	2.3930	2.1278	54.5	- 34.8	.002348	3.48
	2.3156	1.7599	35.7	- 67.6	.002591	1.66
	2.3001	1.4501	37.7	- 78.1	。002591	1.85
	2.6459	3.5876	8.0	166.0	.092479	•08
	2.7009	2.5576	49.2	- 9.1	•0 0 2602	3.15
	2.6680	2.2014	21.0	- 33.7	·002676	•59
	2.5983	1.8490	71.7	- 49.4	.002402	6.17
	2.5518	1.4734	45.1	- 82.6	•002402	2.44
	2.9797	3.5954	19.4	- 36.9	.002563	• 48
	2.9816	2.6060	21.4	- 90.0	•002382	• 54
	2.9564	2.2711	45.5	- 70.0	•002605	2.70
	2.9506	1.9051	51.3	- 37.3	•002568	3.38
	2.8867	1.5160	37.5	- 21.3	•002568	1.81
	3.3224	3.5624	READINGS			
	3.3224	2.6331	58.3	- 90.0	•002382	4.05
	3.3166	2.2672	`•1	- 76.0	.002605	1.34
	3.3243	1.8935	54.0	- 59.7	•002568	3.75
	3.3456	1.5353	35.0	- 86.8	.002568	1.58

Table B-V. Rear-Upper Grid Calculations - Model 35 with Baffle (Continued)

times somethor of the second of the second transfer commences properties and the second of the secon

TIME	X	Y	U	THETA	DENSITY	Q
MICROSEC	INCHES	INCHES	FT/SEC	DEGREES	SLUGS/CUFT	LB/SQFT
916.50	NO READI	NG	READINGS	INVALID		
	2.4885	2.5592	READINGS	INVALID		
	2.4504	2.1450	76.9	- 22.6	•0u2337	6.91
	2.3397	1.7863	48.9	- 19.2	.002313	2.67
	2.2977	1.4447	62.7	- 77.3	£002313	4.54
	2.6508	3.6107	67.8	- 8.4	.002663	6.12
	2.7424	2.6011	59.7	- 7.6	.002504	4.46
	2.6813	2.2049	60.4	- 38.4	•002743	5.00
	2,6489	1.8359	92.7	- 29.3	. 0u2546	11.16
	2.5630	1.4618	52.1	- 50.5	•002596	3.52
	2.9962	3.6069	39.9	- 32.9	READINGS	INVALID
	2.9809	2.6183	55.4	- 4.1	•002169	3.33
	2.9752	2.2481	76.1	- 53.4	·0ú2376	6.89
	2.9504	1.8760	59.2	- 53.1	.002569	4.50
	2.9275	1.5191	64.4	- 40.0	•002569	5.33
	NO READI					
	3.3435	2.6412	58.3	24.0	.002169	3.68
	3.3511	2.2824	66.2	- 26.6	.002376	5.20
	3,3683	1.9046	55.7	- 22.9	•0 u 2569	3.98
	3.3683	1.5363	66.3	- 36.5	002569	5.64
957.40	IGABR ON		READINGS	INVALID		
	NO READI					
	2.4627	2.0987	95.6	- 85.3	.002279	10.41
	2.3601	1.7444	55 . 0	- 81.9	·0u2274	3.44
	2.3136	1.3901	50.0	- 76.5	.002274	2.84
	2.7067	3.5779	76.7	-171.3	.002660	7.83
	2.7590	2.5499	34.0	- 31.0	•002342	1.35
	2.7144	2.1646	70.1	- 56.3	·002884	7,09
	2.6775	1.8045	34.8	- 26.6	•002521	1.52
	2.5770	1.4288	46.4	- 57.0	•0u2521	2,71
	3.0126	3.5741	35.2	- 6.3	•0u2589	1.61
	3.0358	2.6021	50.7	- 4.4	.002036	2.62
	3.0010	2.2110	48.6	2.3	•0ù2583	3.06
	2.9855	1.8587	35.2	- 6.3	.002474	1.53
	2.9351	1.4753	17.4	-116.6	.002474	•37
	3.3611	3.5702	READINGS	INVALID		
	3.3746	2.6563	42.1	33.7	.002036	1.80
	3,3746	2.2381	34.6	- 51.8	•902583	1.55
	3.3746	1.8722	3.9	•0	,002474	.02
	3.397.7	1.4966	23.5	- 24.4	.002474	.68

Table B-V. Rear-Upper Grid Calculations - Model 35 with Baffle (Continued)

TIME	X	Y	U	THETA	DENSITY	o
MICROSEC	INCHES	INCHES	FT/SEC	DEGREES	SLUGS/CUFT	LB/SQFT
000 36			25.42.11.62			
998.30	NO READI		READINGS			
	2.5802	2.6126	READINGS		0.324.70	£ 20
	2•4580 2•3473	2.0515	65.4	- 95.2	. 002478	5.29
		1.7328 1.3969	61.4	- 95.5	.902152	4.06
	2•3092 2•5763	3.5992	33.7	-110.6	.002152	1.22
	2.7710	2.5840	REAUINGS 53.8	INVALID 28.4	002204	2 21
	2.7195	2.1527	5.6	- 45.U	•002284 •002868	3.31
	2.5794	1.8206	35.3	-116.6	•002646	.04
	2.5878	1.4237	35.6	- 9% 2	.002646	1.65 1.67
	3.0305	3.6031	READINGS		.002040	1401
	3.0305	2.6145	19.4	-114.0	.002173	.41
	3.0229	2.2500	15.8	•0	.002640	•33
	2.9847	1.8721	24.4	-104.0	•002508	•75
	2.9198	1.5038	33.9	-125.5	•002508	1.44
	3.3836	3.5954	18.6	- 32.0	.002500	•43
	3.3779	2.6641	63.6	- 97.1	.002303	4.40
	3.3721	2.2557	9.9	126.9	.002113	•13
	3.3721	1.9046	8.4	-135.0	.002508	.09
	3.3893	1.5267	11.8	- 90.0	.002508	.18
1039.20	NO READI		READINGS	INVALID	0002540	• • •
	2.6254	2.5286	83.8	- 86.0	.002809	9.86
	2.4569	2.0348	22.2	52.1	.002298	•56
	2.3543	1.6844	62.8	-111.8	.002374	4.68
	2.3020	1.3591	53.8	-139.4	.002374	3.43
	NO READI	NG	READINGS	INVALID		
	2.8054	2.5750	29.4	7.6	.002487	1.08
	2.7183	2.1607	38.3	30.5	.002627	1.93
	2.6621	1.7735	41.0	-121.4	.002538	2.13
	2.5750	1.3940	53.4	169.5	.002538	3.62
	NO READI			INVALID		
	3.0281	2.5847	29.7	- 78.7	.002342	1.04
	3.0165	2.2110	27.8	- 77.9	.002536	• 98
	2.9797	1.8354	28.7	-151.7	•0ü2393	• 99
	2.9158	1.4482	39.3	-137.0	•0u2393	1.90
	3.3766	3.5605	READINGS	INVALID		
	3.3669	2.5944	56.5	-139.2	•002342	3.74
	3.3688	2.2459	9.7	180.0	•002536	.12
	3.3688	1.8664	16.0	-104.0	.002393	• 31
	3,3979	1.4850	16.6	-110.6	.002393	• 33

Table B-V. Kear-Upper Grid Calculations - Model 35 with Baffle (Continued)

in a compared through the content of the content of

TIME	X-	Y	U	THETA	DENSITY	3
MICROSEC	INCHES	INCHES	FT/SEC	DEGREES	SLUGS/CUFT	LB/SQFT
1500 13	NO BEADI	MC	05404966	THUMAL CO.		
1080.10	NO READI 2.5859	2.5305	16.7	INVAL 1D -135.0	.002457	. 34
	2.4714	2.0687	39.7	- 26.6	.002457	1.64
	2.3244	1.6756	8.4	- 45.0	•002578	,09
	2.2691	1.3626	24.7	-151.4	•002528	•0 9
	NO READI		READINGS		•002320	» I I
	2.7996	2.5878	23.7	- 90.0	·0u2534	.71
	2.7519	2.1718	66.1	- 17.4	.002917	6.38
	2.6584	1.7863	42.2	10.8	•002917 •002687	2.39
	2.5363	1.4332	19.7	180.0	•002687	
	NO READI		READINGS		•002037	• 52
	3.0363	2.5859	49.3	16.3	.002502	3.04
	3.0286	2.2233	54.6	- 12.5		3.91
	2.9599	1.8588	19.7		.002625	
	2.8912	1.4771	15.9	•0 82•9	•0u2346 •0u2346	• 46
	MO READI	-	READINGS	INVALID	\$ CUZ 340	. 30
	3.3359	2.6279	49.3	92.3	0.125.02	3.05
	3.3626	2.2557	14.2	- 56.3	•002502 •002625	.27
	3.3683	1.8893	7.9	- JQ 1 • G	•002325 •002346	
	3.3836	1.5115	29.3	109.7		.07
1121.00	NO READI			INVALID	•0u2346	1.01
1121.00	2.6137	2.5169	48.6	53.1	002/2/	2.0/
	2.4918	2.0174	23.7	-145.0	.002424	2.86
	2.3601	1.6786	31.9	-142.4	.302252	.63
	2.2807	1.3475	35.7	-142.4	•002271	1.15
	NO READI			LINAT ID	• 0027 71	1.45
	2.8054	2.5518	30.4	- 63.4	0:.2245	١ ٥/
	2.7803	2.1413	23.4	-138.4	.002245	1.04
	2.7028	1.812	33.0	-135.0	•0u2965 •0u2623	.81
	2.5557	1.3940	53.9	-115,6	•002623 •002623	1.43
	NO READI			INVALID	• 042023	3.81
	3.0745	2.5983	18.4		A024:4	4.3
	3.0687	2.1994	19.2	108.4 -135.0	£0024.6	•41
	2.9990	1.8354	23.4	- 85.2	.002845	•53
	2.9177	1.4637	15.7	- 97.1	•002618	• 72
	NO READI		READINGS	INVALID	•002518	• 32
	3.3650	2.6428	13.6		003414	2~
	3.3766	2.2343	32.1	•0 •0	+002416	•22
	3.3766	1.8664	21.0	104.0	.002845	1.46
	3.3882	1.5121	41.2	-146.3	•002618	• 58
	700C	107161	410%	171.9	.002618	2.23

Table B-V. Rear-Upper Grid Calculations - Model 35 with Baffle (Continued)

TIME	X	Y	U	THETA		. D.FOST
MICROSEC	INCHES	INCHES	FT/SEC	DEGREFS	SLUGS/CUFT	LB/SQFT
1161.96	NO READI	NG	READINGS	INVALID		
	2.6145	2.5687	40.7	22.8	.002393	1.98
	2.4523		59.2	53 . l	.302027	3.55
	2,2996	1.6565	21.3	- 56.3	.002368	. 54
	2.2366	1.3492	14.4	-164.1	.002368	. 24
	2.6641	3,5916	READINGS	INVALID		
	2.8130	2.5611	34.4	13.2	.002590	1.54
	2.7347	2.1565	14.2	-123.7	.002702	.27
	2.6355	1.7634	25.3	-128.7	.002477	•79
	2.5134	1,3355	23.8	41.6	.002477	.70
	2.9943	3.6107	READINGS	INVALID		
	3.0305	2.6031	8.8	-116.6	.002420	.09
	3.0153	2.2099	8.1	76.0	.002508	.08
	2.9618	1.8359	50.5	-141.3		3.33
	2.8393	1.4618	10.1	- 11.3	.002610	•13
	3.3340	3.6183	READINGS	INVALID		
	3.3492	2.6279	47.4	- 16.9	.002420	2.72
	3.3550	2.2863	40.7	50.9		2.07
	3.3511	1.8719	29.3	19.7		1.12
	3.3435	1.5:72	26.5	- 42.0	.002610	• 92
1262.80	NO READI	NG	READINGS	INVALID	_	
	2.6505	2.5324	44.4		.002695	2.66
	2.5266	2.0634	5û•6	- 2.2	.002258	2.89
	2.3717	1.6612	50.8	- 87.8		3.14
	7.2672	1.3437	27.6	-140.7	.002450	. 94
	NO READ!	ING		INVALID		22
	2.8383	2.5595		116.6	.002371	,09
	2.1725	2.1297	46.1	- 56.3		2.56
	2.6873	1.7619	24.9	- 51.3		• 91
	2.5731	1.4095	9.7	- 89.9	• 202929	.14
	NO READ!				_	•
	3.0707	2.5905	27-1	- 69.0		• 86
	3.0707	2.2072	2.7	- 45.0		• 01
	2.9603	1.8045	12.4	-141-3	.002399	.19
	2.9274	1.4618	18.3	-122.0	.0u23×9	. 40
	NO READ			S INVALID		• •
	3.4095	2.6292	9.9	78.7	.002337	.11
	3.+017	2.2652	35.5	- 80.5	.002360	1.48
	3.4031	1.370!	10.5	- 21.8	.002399	.13
	3.4076	1.4947	18.3	- 32.0	.002399	• 40

Table B-VI. Rear-Lower Grid Calculations ~ Model 35 with Baffle

TIME	X	Y	IJ	THETA	DENSITY	Q
MICROSEC	INCHES	INCHES	FT/SEC	DEGREES	SLUGS/CUFT	LB/SQFT
50.50	1.9904	1.3979	21.9	- 84.9	4002250	. 54
.04.50	2.0153	1.1237	26.1	- 98.7	.002319	.79
	2.0288	.6462	12.1	80.5	•002288	.17
	2.0441	.2991	8.2	- 14.0	.002690	.09
	2.0479	84.00.	7.9	• 6	.002693	.08
	2.4275	1.3346	18.8	.08.4	.002453	.44
	2.4276	1.0201	8.2	- 76.0	.002476	.08
	2.4276	.6136	20.7	-106.7	.002432	•52
	2,4199	-2608	18.7	-127.0	.002834	.50
	2.4199	.0153	16.4	-166.0	.002834	. 3 8
	2.8591	1.3039	49.7	180.0	.002001	2.47
	2.8418	.9703	58.4	162.2	.002125	3.63
	2.8054	.5906	49.7	-163.7	•002240	2.76
	2.7958	.2263	55.7	145.2	.002467	3.82
	2.7862	.0077	45.7	177.5	.002467	2.58
	3.1774	1.2886	28.7	-123.7	.002 001	.82
	3.1716	•9588	25.1	-161.6	.002125	.67
	3.1640	.5753	31.8	180.0	.002240	1.13
	3.1659	.2244	35.8	0.081	•002467	1.58
	3.1640	.0019	36.3	170.5	.002467	1.62
91.30	2.0545	1.4647	107.9	11.5	.002212	12.88
	2.0759	1.1206	120.8	- 17.0	.002398	17.49
	2.0934	.6654	103.0	8.7	.002370	12.58
	2.0992	•3093	86.7	6.5	•002510	9.44
	2.0992	•9019	82.3	- 2.7	.002510	8.51
	2.4669	1.3794	73.4	9.2	.002573	6.93
	2.4825	1.0428	84.4	4.0	.002491	8.88
	2.4747	26187	94.1	- 2.4	.002764	12,23
	2.4708	.2892	102.2	12.2	•002456	12.82
	2•4650 2•9047	•0000	100.56	- 6.7	,002456	12.42
	2.8696	1.2996 1.0039	113.6 109.9	1.0	.002192	14.14
	2.8.24	•6070	104.1	4.1 - 4.3	.002100 .002389	12.69
	2.8230	.2840	117.9	11.5	•002369	12.94 15.01
	2.8230	•0039	125.6	- 3.6	.002160	17.03
	3.2140	1.2879	105.9	3.2	.002192	12,29
	3.2004	.9728	96.0	•0	.002192	9.67
	3.1926	.5895	104.1	4.3	.002100	12.94
	3.1926	.2354	101.9	2.2	.002160	11.22
	3.1926	.0058	103.8	- 1.1	.002160	11.64
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Table B-VI. Rear-Lower Grid Calculations - Model 35 with Baffle (Continued)

TIME MICROSEC	X INCHES	Y INCHES	U FT/SEC	THETA DEGREES	DENSITY SLUGS/CUFT	Q LB/SQFT
		1.101.25	11756	DEUNEES	3209376011	CD: 3411
132.10	2.0940	1.4190	16.4	166.0	.002211	• 30
	2.1285	1.0892	15.1	156.8	.002548	. 29
	2.1285	.6616	35.4	-141.8	.002332	1.46
	2.1285	.3087	28.2	-140.7	.002381	• 95
	2.1285	•0000	21.9	180.0	.002381	•57
	2.4986	1.3461	33.8	-118.1	.002280	1.30
	2.5101	1.0259	22.7	-164.7	.002302	• 59
	2.5197	.6098	22.2	-153.4	.002557	•63
	2.5177	.2819	16.4	-166.0	•002369	• 32
	2.5177	.0038	10.1	168.7	.002369	.12
	2.9703	1.3058	4.4	-153.4	•002066	•02
	2.9492	.9779	15.1	- 66.8	.002147	•25
	2.9070	•5829	11.9	- 90.0	.002371	.17
	2.9089	.2493	18.0	- 83.7	.002390	•39
	2.9089	.0000	2.8	- 45.0	.002390	•01
	3.2809	1.2943	12.6	108.4	.002066	• 16
	3。2656	•9588	14.3	-146.3	.002147	•22
	3.2656	• 5829	22.5	-135.0	.092371	•60
	3.2656	.2282	7.9	180.0	.002390	•08
	3.2656	•0000	13.3	-153.4	•002390	•21
172.90	2.0389	1.4086	43.5	- 54.2	. 002334	2.21
	2.0623	1.1265	15.8	- 97.1	.002311	•29
	2.0651	•6440	26.1	- 77.0	.002363	.81
	2.0778	•2918	29.4	- 86.2	•002554	1.11
	2.0778	.0019	4.4	63.4	.002554	• 02
	2.4514	1.3502	29.4	- 53.1	°005207	1.08
	2.4611	1.0370	25.5	- 32.5	•002339	• 76
	2.4553	.6089	31.6	- 68.2	•002628	1.32
	2.4553	.2763	33.3	- 90.0	+002453	1.36
	2.4553	.0019	•0	•0	.002453	•00
	2.9008	1.2977	179-1	84.4	.002150	34.47
	2.8755	.9903	37.2	- 18.4	.002189	1.51
	2.8424	.5953	49.5	- 18.4	.002516	3.09
	2.8249	. 2655	40.7	- 35.2	.002273	1.89
	2.8249	.0019	33.3	3.4	•002273	1.26
	3.2101	1.2996	28.5	- 74.1	•002150	-87
	3.1887	•9650	20.8	- 45.8	.002189	.47
	3.1770	•5739	30.7	- 63.4	.902516	1.18
	3.1848	• 2354	23.9	- 55-0	.002273	• 65
	3.1809	•0000	13.7	•0	•002273	•21

Table B-VI. Rear-Lower Grid Calculations - Model 35 with Baffle (Continued)

TIME	X	Y	Û	THETA	DENSIFY	Q
MICROSEC	INCHES	INCHES	FT/SEC	DEGREES	SLUGS/CUFT	LB/SQFT
213.70	2.1189	1.3845	93.4	- 51.9	.002254	9.83
	2.1266	1.0738	86.3	- 51.5	.002385	8.87
	2.1342	.6366	50.7	- 11.3	.002289	2.94
	2.1304	.2800	43.6	30.1	.002692	2.56
	2.1304	.0038	37.8	• 0	.002692	1.92
	2.5158	1.3231	51.5	- 27.6	.003086	4.10
	2.5312	1.0125	40.0	- 26.6	·002127	1.70
	2.5312	.5810	45.7	34.4	.002310	2.42
	2.5177	• 2493	22.2	- 10.3	.002454	•61
	2.5177	•0038	15.9	•0	.002454	•31
	2.9875	1.1314	41.8	- 2.7	.002971	2.59
	2.9837	• 9654	57.9	- 5.9	•0J2286	3.84
	2.9530	•5676	43.8	- 39.5	.002554	2.45
	2,9415	.2263	52.5	- 52.7	•002783	3.83
	2.9415	.0019	21.9	• 0	.002783	. 66
	3.2885	1.2675	28.4	- 24.8	•002971	1.20
	3.2790	.9434	38.2	9.0	•002286	1.67
	3.2790	•5561	49.7	- 16.3	•002554	3.15
	3.2790	.2040	43.6	- 24.2	.002783	2.64
	3.2790	.0000	43.7	 0	.0u2783	2.66
254.50	2.0953	1.3366	22.8	~ 59.0	. 002450	*64
	2.1148	1.0603	26.3	- 26.6	•002693	,93
	2.1148	.6342	11.9	- 9.5	•0 0 2451	•17
	2.1148	.3132	13.7	•0	•002603	• 24
	2.1148	•0019	14.3	- 15,9	. 202603	•26
	2.4961	1.3268	23.6	41.6	.002470	• 69
	2.4961	1.0195	18.5	58.0	.002337	• 4Ú
	2.4922	.6342	28.2	56.3	.002434	•97
	2.4767	.2724	11.4	31.0	•002515	•17
	2.4708	.0019	3.9	- 89.9	.002615	• 02
	2.9416	1.2957	162.6	87.9	.002331	30.84
	2.9319	.9844	14.3	-164.1	.002103	-21
	2.8755	•5681	29.1	109.7	•0ú2380	1.01
	2.8560	•2257	40.3	150.9	.002473	2.01
	2.8463	•0019	43.1	-177.4	.002473	2,30
	3.2354	1,2879	21.2	56.3	•002331	•52
	3.2257	.97C8	6.2	- 18.4	•002103	• 04
	3.2237	•5603	4.4	116.6	.002380	• 02
	3.2237	.2179	22.8	121.0	.002473	•64
	3.2237	.0000	17.6	180.0	.002473	• 38

Table B-VI. Rear-Lower Grid Calculations - Model 35 with Baffle (Continued)

TIME	X	Y	U	THETA	DENSITY	Q
MICROSEC	INCHES	INCHES	FT/SEC	DECREES	SLUGS/CUFT	LB/SQFT
295.30	2.1304	1.3653	52.3	8.7	•0u2299	3.14
	2.1496	1.0623	40.8	~ 43.0	.002460	2.04
	2.1457	.6347	42.1	- 45.0	.002240	1.99
	2.1438	.220G	60.7	- 58.4	.002683	4.93
	2.1438	-0000	31.9	3,6	.002683	1.36
	2.5331	1.3384	56.9	- 29.2	.002366	3.83
	2.5407	1.0278	59.1	- 42.3	.002360	4.12
	2.5465	-6040	85.3	- 62.2	.002424	8.82
	2.5273	•2550	77.3	- 44.0	.002564	7.66
	2.5177	.0000	53.7	2.1	• 002564	3.69
	2.9933	1.2905	66.4	- 38.9	.002062	4.55
	2.9703	• 9626	60.4	- 43.7	.002294	4.19
	2.9434	•5944	45.7	- 34.4	•0ü2 4 58	2.57
	2.9070	•2454	35.8	- 3.2	.002376	1.52
	2.8993	•0000	47.8	4.8	•002376	2.72
	3.3001	1.2848	52.2	- 40.4	.002062	2.80
	3.2848	•9415	62.4	- 37.2	•002294	4.46
	3.2771	•5599	36.6	- 12.5	•002458	1.65
	3.2675	.2282	38.2	- 27.9	.002376	1.74
	3.2617	•0000	35.8	3.2	•002376	1.52
336.10	2.1459	1.3444	79.9	- 17.1	.002227	7.11
	2.1440	1.0331	66. ï	- 3.4	.002497	5.55
	2.1440	•6051	68.8	- 4.9	•002350	5.56
	2.1459	•2626	79.9	11.3	-003002	9.58
	2.1459	.0039	78.4	2.9	•003002	9.23
	2.5447	1.2996	86.2	- 21.3	.002413	8.96
	2.5389	.9805	74.3	- 18.4	.002295	6.34
	2.5311	•5603	66.1	- 12.0	.002692	5.87
	2.5311	•2198	84.4	- 4.0	•0u3088	11.00
	2.5233	.0039	88.1	• 0	•003088	11.99
	2,9922	1.2549	77.2	- 35.7	.002342	6.97
	2.9747	•9436	65.7	- 17.4	•002215	4.77
	2.9125	•5428	75.6	- 21.3	.002441	6.98
	2.8911	.2237	110.3	- 19.7	.002674	16.25
	2.8930 3.3743	*0058	111,6	1.0	.002674	16.66
	3.2743 3.2743	1.2549	68.4	- 23.6	.002342	5.48
	3.2588	•9339 •535	73.7	- 10.7	.002215	6.02
	3.2568	•5525 •2004	81.1	~ 8.3 - 4.3	+002441	8.04
	3.2588		78.6	- 4.3	.002674	8.25
	J. C 200	•0019	84.2	1.3	•002674	9.48

Table B-VI. Rear-Lower Grid Calculations - Model 35 with Baffle (Continued)

TIME	X	Y	U	THETA	DENSITY	Õ
MICROSEC	INCHES	INCHES	FT/SEC	DEGREES	SLUGS/CUFT	LB/SGFT
	-					
376.90	2.2052	1.3423	17.8	- 63.4	.002376	• 38
	2.2148	1.0585	31.8	• 0	•0ú2481	1.25
	2.2128	•6290	43.7	• C	~0ú2338	2.23
	2.2205	.2953	36.0	6.3	•002601	1.68
	2.2205	.0038	26.1	8.7	.002601	. 89
	2.6117	1.3078	22.7	- 37.9	·0u2558	• 65
	2.6098	1.0048	34.8	- 31.0	.002371	1.43
	2.6098	•5906	23.9	4.8	.002346	•67
	2.6098	• 2493	30.3	58.4	.002663	1.22
	2.6040	.0000	25.9	4.4	•502663	• 89
	3.0547	1.2464	22.2	-100.3	·0u2158	,53
	3.0316	.9434	23.8	- 90.0	.002217	.63
	3.0125	•5676	14.0	- 8.1	.002512	• 25
	3.0086	.2090	20.3	- 11.3	•002936	• 58
	3.0086	.0019	20.3	11.3	.002836	. 58
	3.3615	1.2579	27.7	- 69.0	.002158	.83
	3.3557	.9281	21.9	- 90. 0	.002217	•53
	3.3557	•5484	32.1	- 68 _e 2	.002512	1.29
	3.3442	•2224	15.1	23.2	.002836	• 32
	3.3442	•0019	13.3	26.6	.002836	• 25
417.70	2.1537	1.3288	23.6	- 41.6	•002264	• 63
	2.1751	1.0331	39.7	- 57.1	•002630	2.07
	2.1868	•6051	31.6	- 51.3	.002572	1.82
	2.1809	• 2665	58.9	- 74.6	.002937	5.10
	2.1712	.0078	15.8	- 7.1	•002937	.37
	2.5623	1.2860	26.3	- 42.0	•0u2541	- 88
	2.5681	•9630	30.5	- 45.0	.0ú2534	1.18
	2.5545	•5623	52.7	- 68.2	.002799	3.89
	2.5467	.2451	39.7	- 69.8	.002989	2.35
	2.5486	• 0958	20.0	11.3	•0ù2989	•60
	2.9883	1.2335	42.0	- 62.2	•002295	2.03
	2.9747	•9202	47.4	- 38.3	•002255	2.53
	2.9261	•5409	57.9	- 66.0	.002595	4.34
	2.9105	.2198	6.2	-108.4	•002776	• 05
	2.9125	.0097	2.0	180.0	.002776	.01
	3.2840	1.2296	46.1	- 77.7	.002295	2.44
	3.2743	•9125	55•4	- 81.9	. 002255	3.46
	3-2704	•5233	41.2	- 92.7	•002595	2.20
	3.2704	•2062	49.9	- 78.7	•002776	3.46
	3.2704	.0078	9.8	• 0	•002776	•13

Table B-VI. Rear-Lower Grid Calculations - Model 35 with Baffle (Continued)

TIME	X	Y	บ	THETA	DENSITY	Q
MICROSEC	INCHES	INCHES	FT/SEC	DEGREES	SLUGS/CUFT	LB/SQFT
458.50	2.2224	1.3269	38.0	- 84.0	•0J2290	1.65
	2.2359	1.0259	32.0	- 97.1	.002427	1.25
	2.2359	-6002	23.9	~131.6	.0C2298	•66
	2.2359	.2397	6.0	- 89.9	.003143	• 06
	2.2359	.0019	11.6	- 31.0	-,003143	. 21
	2.6309	1.2905	36.3	- 80.5	.002540	1.67
	2.6309	•9837	18.0	- 83.7	.002175	• 35
	2.6290	•5427	28.7	- 56.3	•002588	1.06
	2.6232	.2128	45.0	- 45.0	.003105	3.14
	2.6232	.0038	29.9	- 3.8	.003105	1.38
	3.0738	1.2100	24.3	- 35.0	•0 0 2288	.67
	3.0681	.9147	18.8	- 18.4	.002373	• 42
	3.0355	.5158	30.3	- 66.8	.002709	1.24
	3.0067	.2033	24.3	- 55.0	.003136	• 92
	3.0067	.0019	13.3	- 26.6	.003136	• 28
	3.3710	1.2138	13.3	- 26.6	.002288	.20
	3.3634	.8744	18.9	- 96.3	.002373	• 38
	3.3538	.5081	9.9	126.9	.002709	•13
	3.3538	.1745	21.9	-174.8	.003136	• 76
	3.3538	.0019	18.8	-161.6	。003136	• 56
499.30	2.1576	1.2918	109.5	-169.7	.002323	13.92
	2.1712	1.0019	121.6	-177.2	.002532	18,71
	2.1712	.5875	107.2	170.5	.002397	13.77
	2,1809	.2637	106.6	172.6	.002923	16.62
	2.1809	.0019	105.8	178.9	.002923	16.35
	2.5681	1.2510	122.0	-174.5	.002556	19.02
	2.5700	.9455	119.5	-178-1	.002416	17.26
	2.5700	•5389	121.1	166.0	.002889	21.18
	2.5778	.2140	115.4	165.3	.003470	23.11
	2.5778	•0039	111.6	180.0	.003470	21.62
	3.0078	1.2198	131.0	170.5	.002388	20.50
	2.9922	.9144	157.0	176.4	.002410	29.70
	2.9377	•5136	146.0	173.1	.002303	29.87
	2,9241	-2004	126.1	173.8	.003122	24.81
	2.9241	.0039	125.3	180.0	.003122	24.52
	3.2957	1.2237	121.1	1660	.002388	17.51
	3.2724	.8949	126.8	166.6	.002410	19.38
	3.2646	.5311	126.4	167.5	.002803	22.38
	3.2490	.2043	128.5	172.1	.003122	25.78
	3.2529	•0019	127.3	-179.1	.003122	25.30

Table B-VI. Rear-Lower Grid Calculations - Mcdel 35 with Baffle (Continued)

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TIME	X	Y	U	THETA	DENSITY	Q
MICROSEC	INCHES	INCHES	FT/SEC	DEGREES	SLUGS/CUFT	LB/SQFT
540 10	2 1170	1 2070	22.2	70.7	0.0.00	•
540.10	2.1170 2.1170	1.3078	22.2	79.7	.002402	.59
	2.1323	1.0201 .6174	39.0	104.7	•002632	2.01
	2.1323		19.9	90.0	.002339	.46
	2.1323	•2531 •0038	22•7 17•9	142.1 180.0	•9u2926	• 75
	2.5120	1.2790	14.0	98.1	•0ú2926	•47
	2.5139	.9799	33.3		.002645	• 26
	2.5139	•5714	37 . 1	107.4 105.5	.002473	1.37
	2.5139	•2416	29.5	132.3	.002714 .002917	1.87
	2.5139	•0038	20.3	-168.7		1.27
	2.9473	1.2311	34.0	83.3	•002917 •002092	.60
	2.9147	.9243	21.5	123.7	•002206	1.21
	2.8936	•5331	30.1	82.4		. 51
	2.8840	.2167	52.3	98.7	•002584 •0u2901	1.17
	2.8840	.0019	4.0	180.0	•002901	3.96
	3.2560	1.2426	11.9	90.0		•02
	3.2426	•9032	35.6	77.5	•002092	.15
	3.2330	•5350	22.2		•002236	1.48
	3.2291	•1918	40.8	63.4	•002584	.64
	3.2291	•0000	23.8	47.0	.002901	2.41
580.90	2.1615	1.3132	30.7	•0	.002961	. 82
2006 70	2.1615	1.0339	20.8	- 63.4 - 48.8	•002467 •002525	1.16
	2.1/12	•6070	47.4	- 97.1		• 55
	2.1634	°.2743	18.5	-122.0	.002351	2.64
	2.1634	•0019	10.5	-122.0 -158.2	•002712	• 46
	2.5661	1.2646	23.6	- 41.6	•002712	• 15
	2.5603	•9767	26.3	- 48.0	•002547	.71
	2.5603	•5739	43.5	- 82 _• ?	•002428	- 84
	2.5584	•2354	30.0	-101.3	•002823	2.67
	2.5584	•0000	5.9	180.0	•002813	1.26
	3-0117	1,2529	14.1	33.7	.002813	• 05
	2.9805	.9319	9.8		•002351	•23
	2.9416	•5428	4.4	180.0	•002304	-11
	2.9163	•2510	6.2	116.6 161.6	•002767	• 03
	2.9202	•0039	3.9	180.0	.002376	• 05
	3.2957	1.2354	24.8	_	.002376	• 02
	3.2802	•9300	14.1	18.4	•002351	• 72
	3.2743	•5506	11.7	33.7	.002304	•23
	3.2763	.2335	15.8	•0	.002767	•19
	3.2763	.0019	13.7	7.1	.002376	• 30
	342103	10017	F 2 0 1	•0	•002376	• 22

Table B-VI. Rear-Lower Grid Calculations - Model 35 with Baffle (Continued)

TIME	X	Y	i	THETA	DENSITY	Q
MICROSEC	INCHES	INCHES	FT/SEC	DEGREES	SLUGS/CUFT	LB/SQFT
621.70	2.1304	1.2809	34.0	- 96.7	.002411	1.39
	2.1304	1.0048	27.0	-107.1	.002411	.88
	2.1266	.5714	28.2	-140.7	.002443	•57
	2.1227	.2378	22.7	-127.9	.003158	.81
	2.1227	•0000	14.0	-171.9	.003158	•31
	2.5292	1.2637	28.7	-123.7	.002700	1.11
	2.5312	.960?	34.3	-100.0	•002532	1.49
	2.5197	•5292	28.1	-135.0	.002798	1.10
	2.5081	-2128	20.5	-150.9	.003093	. 65
	2.5081	•0038	17.9	180.0	•003693	•49
	2.9588	1.2387	42.1	- 98.1	•001969	1.75
	2.9051	.9243	2.8	- 45.0	•002088	.01
	2.8717	•5369	5.6	45.0	.002460	• 04
	2.8782	.2186	41.9	- 84.6	.002722	2.39
	2.8802	•0019	8.9	-153.4	•002722	•11
	3.2790	1.2502	13.3	-153.4	•001969	.17
	3.2541	.9108	22.2	-116.6	.002088	• 52
	3.2445	•5350	15.5	-129.8	.002460	.30
	3.2445	.1937	34.0	-110.6	.002722	1.57
	3.2426	•0000	11.9	180.0	.002722	.19
662.50	2.1576	1.2802	33.5	20.6	.002492	1.40
	2.1537	1.0136	34.2	- 23.6	.002568	1.50
	2.1498	•5895	35.5	- 6.3	•002395	1.51
	2.1498	·2568	40.9	16.7	.002882	2.41
	2.1498	•0000	39.2	• 0	.002882	2.21
	2.5506	1.2412	29.6	- 7.6	4002628	1.15
	2.5545	•9436	43.I	- 50.5	.002404	2.24
	2.5409	•5545	38.6	66.0	.002521	1.88
	2.5409	•2257	29.4	53.1	.002985	1.29
	2.5409	•0000	17.7	- 6.3	.002985	.47
	3.0058	1.2121	60.8	- 3.7	•002531	4.68
	2.9825	•9300	64.6	- 14.0	.002436	5.08
	2.9455	•5467	55.0	- 4.1	.002612	3.95
	2.9202	.2101	29.8	- 23.2	.002847	1.27
	2.9125	•0000	27.5	- 4.1	.002847	1.08
	3.2840	1.2296	37.6	- 38.7	.002531	1.79
	3.2764	.9105	39.6	~ 8.5	.002436	1.91
	3.2646	.5389	41.3	- 5.4	.002612	2.23
	3.7646	. 2023	30.4	14.9	.002847	1.32
	3.2646	.0019	31.3	• 0	.002847	1.40

Table B-VI. Rear-Lower Grid Calculations - Model 35 w/Baffle (Continued)

TIME	X	Y	U	THETA	DENSITY	Q
MICROSEC	INCHES	INCHES	FT/SEC	DEGREES	SLUGS/CUFT	LB/SQFT
702 20	2 1/11		• • •	~: n ~		. =
703.30	2.1611	1.2924	18.3	- 77.5	.002222	• 37
	2.1611	.9914	13.9	- 90.0	.002723	.26
	2.1611	•5676	7.2	-123.7	•002596	•07
	2.1611	•2493	7.2	123.7	.003039	• 08
	2.1611	.0000	7.2	123.7	.003089	• 08
	2.5580	1.2598	15.9	•0	•002350	•30
	2.5580	•9281	6.3	161.6	•002546	• 05
	2•5350 2•5254	45638	6.3	-108.4	.002534	.05
		•2359	11.6	121.0	.002911	.20
	2.5254	•0019	8.2	104.0	.002911	.10
	3.0182	1.2349	14.3	56.3	.002156	• 22
	2.9664	•9089	16.0	29.7	.002242	• 29
	2.9453	•5331	4.0	• 3	.002514	• 02
	2.9051	•2071	4.4	63.4	.002714	• 03
	2.9070	.0000	11.6	31.0	.002714	• 18
	3.3078	1.2272	16.0	- 7.1	•002156	•28
	3.2924	.9051	24.3	55.0	•002242	• 66
	3.2848	.5312	16.9	- 45.0	.002514	• 36
	3.2733	.2013	8.9	26.6	•002714	.11
7// 10	3.2733	.0000	10.7	21.8	.002714	-16
744.10	2.1615	1.2626	45.4	- 82.6	.002489	2.57
	2.1537	1.0000	26.3	- 42.0	.002582	• 90
	2.1459	.5837	18.6	- 18.4	•002497	• 43
	2.1459	.2626	21.2	33.7	.002872	.64
	2.1459	.0058	18.1	12.5	.002872	.47
	2.5661	1.2412	31.9	- 47.5	.002585	1.31
	2.5486	.9455	39.0	55.5	.002289	1.65
	2.5389	• 5486	34.3	- 31.0	•002552	1.50
	2.5350	•2354	21.1	- 68.2	.002911	• 65
	2,5389	•0078	17.6	•0	.002911	• 45
	3.0136	1.2237	9.8	- 36.9	.002572	•12
	2.9961	•9377	29.4	3.8	•002286	• 99
	2.9494	+5467	17.5	26.6	.002633	• 40
	2.9222	.2140	20.0	11.3	.002837	•57
	2.9222	.0058	17.7	6.3	.002837	•45
	3.2996	1.2276	16.1	- 14.0	.002572	. 34
	3.2840	•9300	8.1	14.0	.002286	.07
	3.2763	.5272	8.8	- 63.4	.002633	.10
	3.2724	•2062	19.6	- 36.9	.002837	• 54
	3.2743	•0058	15.7	•0	•002837	• 35

Table B-VI. Rear-Lower Grid Calculations - Model 35 with Baffle (Continued)

TIME	X	Y	U	THETA	DENSITY	Q
MICROSEC	INCHES	INCHES	FT/SEC	DEGREES	SLUGS/CUFT	LB/SQFT
784.90	2.1668	1.2483	49.8	-113.5	.002493	3.10
	2.1802	.9741	34.0	-110.6	.002562	1.48
	2.1783	.5618	11.2	-135.0	.002643	•17
	2.1783	.2608	21.9	- 95.2	.003211	•77
	2.1783	.0038	2.0	180.0	.003211	•01
	2.5791	1.2358	55.4	-104.5	.002611	4.01
	2.5791	.9588	28.1	- 81.9	.002424	• 96
	2.5638	•5465	13.3	-116.6	.002529	• 22
	2,5331	.2167	15.1	-113.2	.002984	. 34
	2.5427	.0019	10.1	-168.7	.002984	•15
	3.0259	1.2291	40.9	-119.1	•092252	1.88
	2.9952	.9108	41.0	-129.1	.002342	1.96
	2.9607	.5407	42.5	-142.6	.002534	2.29
	2.9243	.2109	30.8	165.1	.002801	1.33
	2.9243	.0019	27.9	-175.9	.002801	1.09
	3.3231	1.2234	42.5	-127.4	•002252	2.04
	3.3001	•9070	42.8	-111.8	.002342	2.14
	3.2886	•5235	25.9	175.6	.002534	• 85
	3.2886	.1898	32.3	-132.5	.002801	1.47
	3.2886	•0000	21.9	180.0	.002801	•67
825.70	2.1420	1.2179	58.9	- 74.6	.002617	4.54
	2.1420	•9689	35.3	- 86.8	.002650	1,65
	2,1381	•5759	20.1	- 78.7	.002445	•49
	2.1440	.2412	29.6	- 82.4	•003128	1.37
	2.1440	•0058	3.9	•0	.003128	• 02
	2.5525	1.1887	52.0	- 70.2	.002836	3.84
	2.5525	•9183	55.4	- 81.9	.002512	3.85
	2.5331	.5370	18.1	- 77.5	.002864	• 47
	2.5292	.2218	42.9	- 43.2	.003087	2.85
	2.5292	.0058	21.5	.0	.003087	• 72
	2.9942	1.1887	54.2	- 77.5	.002545	3. 73
	2.9708	• 9066	56.4	- 69.7	•002366	3.76
	2.9163	.5214	45.2	- 72.3	•002606	2.66
	2.8930	.2218	57 . 1	- 59.0	•002880	4.69
	2.8949	.0039	29.4	•0	•002880	1.24
	3.2743	1,1946	59.0	- 84.3 - 76.5	.002545	4.44
	3.2685 3.2510	.8911	50.3	- 76.5 - 57.1	.002366	3.00
	3.2510	•5292 •1829	39•7 37•2	- 57.1 - 71.6	.002506	2.05
	3.2529	• 1029	11.7	• 11°B	.002880 .002880	1.97
	J & E. J & 7	• 0076	1101	• 0	• 002000	•20

Table B-VI. Rear-Lower Grid Calculations - Model 35 with Baffle (Continued)

TIME	•			T1.5 T 1	0551.	•
MICROSEC	X	Y	U	THETA	DENSITY	Q
MICKUSEC	INCHES	INCHES	FT/SEC	DEGREES	SLUGS/CUFT	LB/SQFT
866.50	2.1822	1.1927	14.0	- 81.9	•002536	• 25
	2.1822	•9396	40.5	- 78.7	.002712	2.23
	2.1822	•5427	49.7	- 73.7	.002477	3.06
	2.1822	.2320	12.7	- 51.3	.003441	.28
	2.1822	.0038	8.2	- 14.0	.003441	.12
	2.5964	1.1889	13.9	• 0	.002568	.25
	2.5868	.9051	34.0	- 69.4	•002503	1.44
	2.5676	•5292	40.2	- 81.5	.002438	1.97
	2.5638	.1879	20.3	- 78.7	.003616	.74
	2.5638	.0019	8.4	- 45.0	.003616	.13
	3.0374	1.1774	31.0	- 50.2	.002339	1.13
	3.0144	·859i	27.8	- 90.0	.002425	• 94
	2.9741	• 4986	31.4	- 34.7	•002546	1.26
	2.9530	.1630	47.2	- 67.8	.003706	4.13
	2.9530	.0019	19.9	• 0	.003706	. 73
	3.3289	1.1659	35.8	- 19.4	.002339	1.50
	3.3116	.8591	33.1	- 57.3	.002425	1.33
	3.3097	• 4909	40.2	- 57.1	·0J2546	2.06
	3.3001	.1553	28.7	- 33.7	.003706	1.52
	3.3001	•0000	25.9	- 4.4	.003706	1.24
907.30	2.1440	1.2043	28.2	-123.7	ە002318	• 92
	2.1498	•9300	31.6	- 97.1	.002612	1.30
	2.1518	•5292	31.6	- 97.1	:002715	1.35
	2.1518	.2315	33.5	- 96.7	.003309	1.86
	2.1518	•0039	5.5	-135.0	.003309	. 05
	2.5661	1.1887	39 ^	- 84.3	.002679	2.08
	2.5642	.8872	41	- 70.7	.002502	2.15
	2.5389	•4981	31.0	- 60.3	.002716	1.35
	2.5331	.2023	26.3	- 42 0	.003422	1.19
	2.5350	.0000	19.7	- 1.7	.003422	.66
	3.0136	1.1654	42.8	- 74.1	.002340	2.14
	2.9708	.8794	23.7	- 65.6	•GQ2326	• 65
	2,9416	•5039	48.6	- 40.1	.002568	3.04
	2.9105	.1790	36.6	15.5	> 003306	2.21
	2.9144	•0039	353	- 3.2	.003306	2.06
	3.3074	1.1829	30.0	-101.3	•002340	1.05
	3.2860	.8638	17.5	-116.6	.002326	• 36
	3.2724	.4961	22.9	-160.0	.002568	.67
	3.2743	.1673	14.3	-164.1	.003306	• 34
	3.2782	.0039	13.7	180.0	-003306	•31

Table B-VI. Rear-Lower Grid Calculations - Modei 35 with Baffle (Continued)

TTHE	X	Y	U	THETA	DENSITY	Q
MICROSEC	INCHES	INCHES	FT/SEC	DEGREES	SLUGS/CUFT	LB/SQFT
948.10	2.1668	1.1697	60.8	- 78.7	.002400	4.43
	2.1783	•9089	36.3	- 8∂•5	.002632	1.73
	2.1783	.5120	8.9	- 63.4	.002377	• 09
	2.1783	.1994	26.1	- 98.7	.003632	1.24
	2.1783	•0000	2.0	- 89.7	.003632	.01
	2.6002	1.1535	39.7	~ 90.0	. 902645	2.09
	2.6002	.8667	23.9	- 94.8	.002469	.71
	2.5829	•5024	10.7	68.2	•092520	.14
	2.5829	.1707	9 _c 9	-126.9	.003518	.17
	2.5829	.0000	6.0	180.0	·003518	• 06
	3.0489	1.1371	25.9	- 57.5	.002626	•8R
	3.0240	.8380	30.8	-104.9	.002749	1.31
	3.0105	•4679	32.1	-111.8	.003225	1.66
	2.9875	.1726	4.4	-116.6	.004199	• 04
	2.9875	•0000	6.3	-161.6	.004199	• 08
	3.3231	1.1371	41.8	- 92.7	•002626	2.27
	3.3039	. 8437	24.3	-125.0	.002749	.81
	3.2886	•4832	23.9	- 94.8	.003225	• 92
-	3.2867	.1515	8.9	-116.6	.004199	•17
	3 . 286T	.0000	6.3	-161.6	.004199	• 08
988.90	2.1556	1.1459	28.2	-146.3	.002543	1.01
	2.1556	.8949	49.1	-156.5	.002859	3.45
	2.1556	•5214	47.7	160.8	£002569	2.92
	2.1479	.2062	45.7	170.1	。003605	3.77
	2.1518	.0019	45.1	177.5	.003605	3.66
	2,5661	1.1498	46.1	167.7	.002691	2.85
	2.5623	.8638	39.4	174.3	.002675	2.97
	2,5428	.5078	41.9	-169.2	.002784	2.44
	2.5272	.1946	58.2	160.3	.003494	5.92
	2.5292	•0000	54.9	178.0	.003494	5• 2ò
	3.0272	1.1440	53.2	173.7	.002474	3.50
	2.9630	.8502	53.8	169.5	.002304	3.33
	2.9300	.4747	106.9	171.6	.002710	15.49
	2.9086	.1751	95.0	169.7	.003392	15.30
	2.9086	.0019	107.8	177.9	.003392	19.70
	3.3054	1.1420	35.3	123.7	.002474	1.54
	3.2724	.8444	15.8	-172.9	.002354	•39
	3.2704	.4728	19.3	-156.0	.002710	•50
	3.2704	.1595	22.9	-160.0	.003392	.89
	3.2724	-0019	21.5	180.0	.003392	•79

Table B-VI. Rear-Lower Grid Calculations - Model 35 with Baffle (Continued)

TIME	x	Y	U	THETA	DENSITY	Q
MICRGSEC	INCHES	INCHES	FT/SEC	DEGREES	SLUGS/CUFT	LB/SOFT
1029.70	2.1438	1.1544	34.7	166.8	.002397	1.44
	2.1342	.8897	41.8	154.7	.002683	2.34
	2.1342	•5273	37.8	177.0	.002464	1.76
	2.1342	.2671	30.8	165.1	.003502	1.67
	2.1342	.0019	33.8	180.0	.003502	2.00
	2.5561	1.1601	19.6	114.0	002703 ،	.52
	2.5618	.8706	19.6	155.0	.002687	.51
	2.5427	.4947	10.7	-158.2	.003033	.17
	2.5292	.1898	9.9	180.0	.003571	.18
	2,5292	.0019	18.7	148.0	•003571	.63
	2.9971	1.1429	37.8	190.0	•Qu2237	1.59
	2.9722	.8476	11.6	59.0	.002245	.15
	2.9070	•4832	24.2	170.5	•0u2568	• 75
	2.8974	•1956	33.8	176.6	.003216	i.34
	2.8821	.0038	21.9	-174.8	•0ú3216	• 77
	3.3039	1.1659	26.7	132.0	•002237	.80
	3.2886	.8418	4.0	180.0	·002245	• 02
	3.2713	o4756	41-0	157.2	.002568	2.15
	3.2656	•1438	46.2	154.5	.003236	3.43
	3.2656	•0000	43.9	174.8	.003216	3.10
16/0.50	2.1226	1.1537	47.2	-175.2	-0024 09	2.60
	2.1187	.9125	35.5	173.7	.002694	1.64
	2-1187	•5233	31.9	169.4	•002460	1.25
	2.1187	.2140	35.3	160.6	.003452	2.15
	2.1187	.0019	33.3	-176.6	•003452	1.92
	2.5584	1.1673	41.5	160.7	.002710	2.33
	2.5447	.8716	55.1	-163.5	a 002580	3.92
	2.5331	•5039	47.2	-175.2	•0ú2933	3.26
	2.5175	.1946	35.3	-176.8	•003695	2.36
	2.5136	.0097	35.3	-176.8	•0ŭ3695	2.30
	2.9903	1-1440	32.1	127.6	-902401	1.24
	2.9689	.8599	45.0	180.0	•002423	2.45
	2.9066	4786	18.5	122.0	.002410	.4 8
	2.8755	.1770	29.4	-126.9	•QU3336	1.44
	2.8872	.0000	4.4	-116.6	•003336	~0 3
	3.2879	1.1615	18.6	161.6	.002401	• 41
	3-2685	.8444	24.5	118.t.	.002420	•73
	3.2335	.4883	20.0	101.3	.002810	•56
	3.2296	.1797	26.3	116.6	•003336	1.15
	3.2296	•0058	11.7	180.0	.003336	•23

Table B-VI. Rear-Lower Grid Calculations - Model 35 with Baffle (Continued)

		v	U	THETA	DENS1 (Y	Q
TIME	X	Y Y	FT/SEC	DEGREES	SLUGS/CUFT	LB/SQFT
MICROSEC	INCHES	INCHES	F1/36C	DLONEL	323000	
	2.0978	1.1505	44.0	-161.6	.002336	2.26
1111.39	2.0997	.8936	34.8	-149.0	.0028/4	1.72
	2.1G35	.5331	24.9	-151.4	.002551	• 79
	2.1016	.2186	22.2	-169.7	.003403	. 84
	2.1016	.0000	21.9	-174.8	.003403	. 82
	2.5177	1.1735	50.8	-149.4	.002401	3.09
	2,5101	.8552	32.0	172.9	.002651	1.36
	2,4966	.4909	28,1	171.9	•002662	1.05
	2.4947	.1879	39.9	174.3	.003516	2.80
	2.4947	.0000	50.3	-170.9	.003516	4.45
	2.9779	1.1678	28.9	74.1	.002089	.87
	2.9281	.6476	16.0	- 97.1	.002172	.28
		.4986	8.2	-166.0	.002398	• 08
	2.8974	.1726	15.1	23.2	.003207	.37
	2,8802	.0000	7.2	146.3	.003207	• 08
	2.8802	1.1716	9.9	-143.1	.002089	.10
	3.2867	.8629	17.0	-159.4	.002172	.31
	3.2771	.4947	18.3	12.5	.002398	•40
	3.2675	.1668	20.3	- 11.3	.003207	• 66
	3.2541	.0000	20.7	- 16.7	.003207	• 69
10	3.2541	1.1401	24.8	-161.6	.002543	.78
1152.10	2.0817	.8949	33.3	-139.8	.002652	1.47
	2.0895 2.0973	.5117	53.8	-123.1	.002566	3.71
	2.0973	.2301	28.0	-167.9	.003570	1.40
	2.0973	.0000	27.5	175.9	.003570	1.35
	2.5156	1.1420	43.3	-108-4	.002427	2.28
	2.5136	.8755	6.2	-161.6	.002469	• 05
	2.5058	.5078	14.1	123.7	.002708	.27
	2.4786	.1984	35.9	150.6	.003145	2.03
	2.4650	,0019	31.4	176.4	.003145	1.55
	2.7981	1.1712	78.4	- 88.6	.002348	7.21
	2.9669	.8444	27.4	- 90.0	•302460	。92
	2.8988	4767	27.3	-159.0	.002685	1.00
	2.8891	.1829	20.4	-163.3	.003158	• 66
	2.8813	.0039	19.7	174.3	.003158	.61
	3.2802	1.1556	39.9	-101.3	.092348	1.87
	3.2529	.8385	54.2	-130.6	.002460	3.61
	3.2510	.4922	39.6	-171.5	.002685	2.11
	3.2490	.1751	29.8	-156.8	.903158	1.40
	3.2490	.0000	27.5	175.9	.003158	1.19

Table B-VII. Front-Lower Grid Calculations - Model 55 with Baffle

TIME	x	Y	Ü	THETA	DENSITY	Q
MICROSEC	INCHES	INCHES	FT/SEC	DEGREES	SEUGS/CUFT	LB/SUFT
				_		
ან• 00	•5971	•0000	52.5	• 0	•0u2548	3,51
	.5971	.1463	28.3	-137.7	.002124	.89
	.5971	•5395	24.4	151.4	•0u2268	,67
	.5971	e9210	25.3	180.0	.002316	. 74
	•5971	i. 3620	24.9	-128.7	.002316	. 72
	.9951	•0000	5.8	180.0	•302688	. 05
	•9951	.1795	10.5	-158.2	.002401	.13
	•9951	•5620	9,9	-101.3	.002394	•12
	•9834	.9678	9.7	-143.1	.002295	.11
	,9678	1.4927	34.9	-137.6	•0ú2295	1.83
	1.4502	•0039	27.5	-171.4	.002354	389
	1.3483	.2068	29,2	180.0	,002474	1.05
	1.7483	.5932	15.7	-150.3	.0u22*1	• 78
	1.63034	.9912	20.7	-131.2	•0u2342	• 50
	1.2117	1.5766	20.9	158.2	.0u2342	-51
	1.7268	• 90 39	17.9	-139.4	.002354	.38
	1.7327	.2849	13.8	171.9	·0u2474	.23
	1.7171	.6517	33.1	-130-2	•JU2281	1.25
	1.7073	1.0751	1.0	123.7	.002342	, ú6
	1.5176	1.7951	38,4	-120.5	.002342	1.72
101.20	•6808	.0000	9.9	180.0	.002594	.13
	.6038	.1577	15.4	140.2	.002163	• 26
	.5981	.5615	12.5	-108.4	.002240	.17
	•5865	. 7462	15.4	-140-2	·102411	, 29
	•5865	1.3769	21.7	180.0	·3J2411	•57
	.9981	.0077	27.7	175.9	.0u2454	• 94
	.9942	.2038	14.4	164.1	.002477	• 26
	.9942	•5692	14,0	-171.9	• 502 395	•23
	.9827	.9750	28.3	-1.14.8	.002280	.91
	.9519	1.4654	42,2	-127,4	.032289	2.03
	1.3558	.0154	15.8	180.6	.002163	.27
	1.3538	.2327	18.2	139.4	. Ju2414	.40
	1.3365	.6154	26.0	171.3	.002260	.76
	1.3077	1.0192	21.3	-158.2	.002318	• 52
	1.2096	1.5923	15.4	-129.H	.002318	. 28
	1.7404	.0019	7.9		.002163	. 07
	1.7404	•3038	READING		<u> </u>	-
	1.7269	.6673	12.5	- 71.6	•002260	.18
	1.7058	1.0788	34.0	-125.5	.0u2318	1.34
	1.6269	1.8212	6.2	71.6	.002319	• 05
	*****				, , , , , , , , , , , , , , , , , , ,	

Table B-VII. Front-Lower Grid Calculations - Model 35 with Baffle (Continued)

TIME	X	Y	ប	THETA	DENSITY	0
MECROSEC	INCHES	INCHES	FT/SEC	DEGREES	SLUGS/CUFT	LB/SQFT
						_
142.40	.5873	.0000	81.7	180.0	.002525	8.42
	•5854	.1561	7.0	123.7	.002236	• 95
	•5932	• 5268	1.9	· 0	• 902369	• 30
	•5854	·9112	23.7	- 55.0	.0u2316	• 65
	•5756	1.3620	20.3	- 73.3	.002316	•48
	•9678	•0050	1.9	- 89.7	•002559	•00
	.9815	.1834	19.4	- 90.0	•002482	.47
	.9815	.5600	7.8	89.9	.002573	.08
	.9717	.9424	9.7	- 89.9	•002271	.11
	.9424	1.4595	23.3	• 3	.0u2271	•62
	1.3346	.0039	14,0	- 33.7	READINGS	
	1.3346	.2185	11.8	- 9.5	READINGS	
	1.3229	.5971	24.9	- 38.7	.002274	• 71
	1.2839	•9834	19.8	- 78.7	.002282	. 45
	1.2020	1.5649	51.2	-81.3	•0ú2282	2.99
	1.7346	.0039	8.8	-166.0	READINGS	INVALID
	NO READ!	NG				
	1.7210	•6400	20.0	- 60.9	•0u2274	• 46
	1.6878	1.0478	6.2	18.4	•002282	. 04
	1.6195	1.8010	36.2	- 53.7	e002282	1.49
183.60	•6000	.0000	39.5	•0	•002436	1.90
	•6000	.1635	41.6	- 5.4	•002161	1.82
	•6000	•5615	33.6	- 3.4	•002395	1.35
	•5000	9269	45.1	- 23.2	.002378	2.42
	•5923	1.3577	60.0	- 46.3	•002378	4.28
	•9981	•0058	53.6	6.3	•0ü2445	3.51
	•9942	.1846	46.1	- 9.9	•002334	2.48
	• ? 942	•5769	31.2	- 18.4	•002379	1.16
	e9827	•9654	32.1	- 10.6	•002412	1.24
	•9750	1.4654	47.7	- 24.4	•002412	2.74
	1.3673	.0077	51.9	3. 7	•0ú2265	3.05
	1.3654	.2308	53.7	17.1	•002528	3.64
	1,3558	•6000	48.4	- 11.8	.002229	2.61
	1.3115	1.0000	40.2	- 11.3	.002381	1.93
	1.2173	1.5423	46.6	- 36.4	.002381	2.58
	1.7327	.0000	26.3	13.0	•002265	.78
	1.7462	.2904	READING			
	1.7365	•6590	36.4	49.4	3002229	1.48
	1.7115	1.0808	33.1	17.4	.002381	1.30
	1.5481	1.7923	63.0	- 32.2	•002381	4.72

Table B-VII. Front-Lower Grid Calculations - Model 35 with Baffle (Continced)

TIME	K	Y	U	THETA	UFNSITY	•
MICROSEC	INCHES	INCHES	FT/SEC	DEGREES		LB/SQFT
224a 86	•6263	•0000	77.8	• 0	•0u2633	7. 88
	•6263	.1522	20.3	- 16.7	•Ju2231	• 46
	.6263	•5249	47.0	65.6	.732442	2.70
	.6263	.8937	50.6	- 67.4	.0u2439	3.12
	•6166	1.3190	69.6	- 84.5	• 0 0 2 4 3 9	4,48
	1.0205	•0u/8	11.8	- 9.5	•0u2582	.13
	1.9263	.1756	21.0	33.7	•0J2481	• 55
	1.0107	•55JZ	39.1	- 63.4	·UU2457	1.88
	1.0029	• 9366	49.7	- 59.4	•0ú2341	2.89
	,9854	1.4400	59.2	- 66.8	·9u2341	4.11
	1.3854	+0117	13.6	٠Û	. 002300	.21
	1.3854	·234ì	13.0	- 63.4	•9u2542	•22
	1.3698	•5873	16.9	- 76.0	. Ju2396	.3L
	1.3229	•9756	45.5	- 70.¢	•0u2377	2.46
	1.2390	1.5376	61.0	- 57.5	.002377	4.43
	1.7600	•0098	56.4	• ij	•002300	3.66
	1.7620	.286R	13.0	26,6	.002542	•22
	1.7444	.6673	20.7	- 48.8	.002396	.51
	1.7190	1.0576	42.1	- 56.3	.002.17	2,10
	1.6722	1.7678	55.0	8.1	.002377	3.60
266.00	•ó769	•0003	75.0	• 0	.002581	7.25
	•6192	.1577	8.8	-116.6	•9u2359	• 09
	.6192	•5192	10.6	-111.8	.302422	.14
	•6192	•8638	16.3	-104.0	" 9∪2∃64	-31
	•5981	1.2941	13.6	-111.9	.Ju2364	.13
	1.0096	•0038	•0	• Ĉ	.002466	.00
	1.0115	.1962	16.9	~11G.6	• 0 u2585	.37
	1.0115	.5423	19.8	- 84.3	. Ju2575	•51
	1.0077	.9231	22.i	- 63.4	.002515	.61
	.9981	1.4115	39.7	- 84.3	.0u2515	1.98
	1.3808	.0077	2.0	180.€	·0u2134	.00
	1,3712	.2192	21.7	- 94.1	. 0u2565	• 98
	1.3596	.5846	16.9	- 69.4	•0J2316	.33
	1.3269	•9577	26.5	- 48.0	.002240	. 79
	1,2404	1.4865	59.2	- 53.1	.002240	3.92
	1.7885	•0006	16.3	76.0	•0ú2134	.28
	1.7577	• 2962	15.9	82. ₹	• 302565	• 32
	1.7500	•6346	24.1	- 55.0	.302316	•67
	1.7346	1.0462	33.5	- 45.i	.002240	1.26
	1.7019	1.8950	38.3	- 11,9	.002240	1.64

Table 2-VII. Front-Lower Grid Calculations - Model 35 with Baffle (Continued)

TIME	x	¥	IJ	THETA	DENSITY	Q
MICROSEL	INCHES	INCHES	FT/SEC	DEGREES	SLUGS/CUFT	LB/SQFT
307.20	.7005	•0000	58.1	180.0	.0u3077	7.13
301.20	•6224	.1444	21.7	-116.6	.002240	•53
	.6224	•5151	30.8	-124.7	.002401	1.14
	•6224	.8780	37.4	-117.9	·0J2407	1.68
	.6127	1.3093	25.9	-103.0	.002407	.81
	1.9205	•007B	23.4	-175.2	.002889	.79
	1.0205	.1600	46.4	-123.0	.002436	2.62
	1.0127	.5307	40.5	-125.2	.002434	1.99
	1.0127	.9171	35,1	-123.7	.002302	1.42
	•9893	1.4010	35.1	-109.4	.002302	1.42
	1.3834	.0117	6.2	161.6	.002401	.05
	1.3834	.2068	34.0	-103.2	·0u2596	1.50
	1.3756	.5717	37.2	- 96.0	.0ú2394	1.65
	1.3405	.9561	35.1	- 93.2	.002390	1.47
	1.2741	1.4907	12.5	- 38.7	.002390	.19
	1.7639	.0254	33.6	170.0	.292401	1.35
	1.7639	.3044	38.2	-104.7	.002596	1.89
	1.7580	.6478	27.8	-114.8	.002394	•93
	1.7424	1.0341	44.8	- 92,5	.002390	2.40
	1.7093	1.7600	54.5	- 88.0	•002390	3.55
348.40	.6096	.0000	88.8	189.0	.0u2980	11.75
	.6096	.1385	12.6	-141.3	•002423	.19
	.6019	.4942	28.7	-105.9	»002460	1.02
	-6019	.8481	38.0	-117.9	.002387	1.72
	.5923	1.2:31	38.3	-101.9	.002387	1.75
	•9865	.0019	39.7	-174.3	•002856	2.25
	•9865	.1577	11.5	121.0	•002454	•16
	•9885	•5096	11.8	- 90.0	·002427	•17
	•9885	.8942	34.5	-113.5	.002307	1.37
	• 9865	1.3788	40.7	- 76.0	•0ü2307	1.91
	1.3750	.0096	28.3	~167.9	·Cú2617	1.04
	1.3635	.1855	20.1	-168.7	•002569	•52
	1.3558	.5481	22.5	-127.9	•002397	.61
	1.3250	•9231	32.5	-104.C	•002253	1.19
	1.2500	1.4788	19.4	- 66.0	•002253	• 43
	1.7558	•0058	21.8	- 84.8	.002617	•62
	1.7481	.2596	14.2	- 56.3	•002569	• 26
	1.7385	.6096	40.0	- 69.8	·002397	1.91
	1.7327	1.0019	32.5	- 76.0	.0ú2253	1.19
	1,7038	1.7462	46.2	- 70.0	•002253	2.40

Table B-VII. Front-Lower Grid Calculations - Model 35 with Baffle (Continued)

TIME	x	Y	U	THETA	DE 4SITY	0
MICROSEC	INCHES	INCHES	FT/SEC	DEGREES	SLUGS/CUFT	LB/SCFT
MICKOSEC	1.105					
389.60	.6127	.0000	13.6	• G	• 3 u2x51	. 26
30.00	.6127	.1366	14.8	- 23.2	·0u2337	• 26
	.6146	.4878	13.0	- 63.4	·002442	•21
	.6049	.8440	31.2	- 86.4	·002347	1.16
	.6049	1.2722	31.4	- 68.2	.00231	1.18
	.9815	.0039	23.4	4.8	.0u2198	•76
	1.0146	.1698	24.1	- 14.0	•0u2663	.77
	1.0127	.5140	21.7	10.3	·0u2570	.61
	•3990	.8859	37.8	- 55.5	.002289	1.63
	9990	1.3620	48.7	- 61.4	.0ú2289	2.72
	1.3561	•0059	14.0	- 33.7	.002187	•22
	1.3639	.2029	25.6	8.7	•Q02573	, 84
	1.3620	.5541	29.4	- 7.6	.052297	• 99
	1.3327	.9249	35.8	- 22.4	•9u2345	1.50
	1.2820	1.4732	52.3	- 42.0	·0u2345	3.21
	1.7659	.0039	23.3	• G	.0u2187	•60
	1.7717	.2927	32.1	14.0	.002573	1.32
	1.7717	.6107	37.0	•0	.0ú2291	1.57
	1.7502	1.0029	48.6	- 53.1	• 0u2 345	2,77
	1.7249	1.7171	63.1	- 56.3	•062345	4.67
430.8ú	.6231	.0000	17.8	• 0	•0ú3045	• 48
	.6231	.1327	17.9	- 6.3	. 002331	.37
	.6077	.4827	16,3	- 14.0	• 0025 3ช	. 34
	.6038	.8173	25.7	• C	.002327	• 77
	.6038	1.2442	43.8	- 82.2	•0u232T	2.23
	1.0096	•0638	37.7	- 6.0	.002864	2.04
	1.0096	.1519	26.0	-81e3	.002416	. 81
	1.0096	•5135	15.0	- 23.2	• 05250ช	• 26
	1.0096	.8635	23.0	- 59.0	•002278	• 60
	1.0096	1.3365	56.1	-100.1	.0J2278	3.59
	1.3865	.0019	51.3	- 2.2	, 302461	3.24
	1.3885	.1904	43.6	- 5.2	.002587	2.46
	1.3846	•5442	25.0	18.4	.002544	.79
	1.3577	• 9096	30.7	- 45.0	.002350	1.11
	1.2885	1.4442	65.6	- 96.9	.002350	5.06
	1.7788	•0058	21.7	ن <u>.</u>	•002461	•58
	1.7788	-2673	31.8	- 60.3	.002587	1.31
	1.7750	•6096	16.3	- 14.0	·0u2544	. 34
	1.7615	•9635	44.7	- 48.6	.002350	2.35
	1.7385	1.6942	42.5	- 68.2	•GU2350	2.12

Table B-VII. Front-Lower Grid Calculations - Model 35 with Baffle (Continued)

TIME	X	Y	U	THETA	DENSITY	Q
MICROSEC	INCHES	INCHES	FT/SEC	DEGREES	SLUGS/CUFT	LB/SQFT
1110113320	1.101163	1.1023	, 020			
4/2.00	•6302	•0000	3.9	• 0	.03050	.02
	.6302	.1346	3.9	•0	.002326	• 02
	.6302	.4839	20.3	- 16.7	•0u2529	•52
	.6302	.8449	21.7	79.7	.002696	• 54
	.0107	1.2293	12.3	71.6	. 002696	•20
	1.0185	.0000	15.6	180.3	.002763	. 33
	1.7185	.1444	16.0	14.0	.002378	• 31
	1.0263	•5132	15.7	7.1	•002648	• 33
	1.0107	.8663	16.0	14.0	.002404	• 31
	.9893	1.3073	15.7	- 97.1	.002404	.30
	1.4068	.0039	21.7	26.6	.0ú2493	•59
	1.4068	.1990	19.4	- 53.1	.002545	.48
	1.3854	•5620	22.0	- 45.0	.0J2497	•60
	1.3541	.9034	14.0	- 56.3	•0û2321	• 23
	1.2741	1.4048	33,?	- 69.4	•0u2321	1.28
	1.7873	.0039	31.1	• 0	c002493	1.21
	1.7873	.2654	35.7	- 29.4	•002545	1.62
	1.7873	.6068	40.1	- 50.9	.0u2497	2.01
	1.7795	.9698	34,6	38.2	002321	1.39
	1.7405	1.6780	22.0	- 45.0	. 002321	•56
513.20	.6269	.0000	5.9	180.0	•003046	• 05
	.6269	.1327	12.6	128.7	.002337	•19
	.6269	.4769	11.2	-135.0	·0U2409	•15
	.6077	.8385	29.7	176.2	•002382	1.05
	.6077	1.2558	35.1	128.2	•002392	1.47
	•9942	.0038	7.1	123.7	•002944	.07
	1.0250	.1558	31.8	97.1	•002437	1.23
	1.0250	.5154	13.2	-153.4	.002518	• 22
	1.9250	.8673	2.0	180.0	002347	• 00
	1.3077	1.3212	45.4	90.0	•0u2347	2.42
	1.4058	.0115	22.1	169.7	•002609	•63
	1.4000	.1750	21.7	189.0	•002543	•60
	1.4000	•52H8	21.3	-146.3	•002275	• 52
	1.3654	.8981	23,8	131.6	.002377	•67
	1.3000	1.4135	22.1	116.6	•002377	•58
	1.8096	.0058	11.8	180.0	•002609	•18
	1.8096	•2500	12.5	161.6	.002543	• 20
	1.8000	.5788	13.2	-153.4	.002275	•20
	1.7885	•9846	37.7	132.9	•092377	1.69
	1.7538	1.6788	2.8	-135.0	•002377	.01

Table B-VII. Front-Lower Grid Calculations - Model 35 with Baffle (Continued)

TIME	X	Y	U	THETA	DENSITY	Q
MICROSEC	INCHES	INCHES	FT/SEC	DEGREES	SLUGS/CUFT	LB/SQFT
			, , 5	DEUNEES	360037601 !	CO/SUFT
554.40	,6244	•3353	1.9	180.6	.002688	-01
	•6224	.1444	11.8	99.5	.002517	.18
	•6224	.4761	9.9	101.3	.002400	.12
	.6010	•8408	19.2	24.0	. 902338	. 43
	•5893	1.2566	16.0	-166.C	.902338	.30
	1.0145	.0059	11.3	31.0	•0u2721	.17
	1.0146	.1756	14.8	113.2	.0u2631	.29
	1.0146	.5073	8.0	166.0	•002596	.08
	1=0098	.8653	16.5	135.0	.002387	. 33
	• 9893	1.3522	11.3	-149.0	.912387	.15
	1.3854	.0078	19.2	156.0	.002431	. 45
	1.3854	:1940	33.1	118.1	.002575	1.41
	1.3678	•55u2	22.0	135.0	•302298	• 55
	1.3385	•9210	10.5	158.2	.002401	.13
	1.2644	1.4283	19.4	-143.i	.0u24C1	. 45
	1.7756	.0039	17.4	153.4	.002431	, 37
	1.7756	• 2693	20.0	150.9	•JJ2575	.52
	1.7756	.6010	25.3	157.4	.0u2298	. 73
	1.7541	•9971	17.5	160.0	.0ú2461	. 37
	1.7385	1.6761	31,4	- 82.9	.002401	1.18
595.60	•6250	.0060	2.0	•0	·302820	.01
	•6250	•1442			•902411	
	•6250	.4865	13.2	153.4	~0u2493	,22
	•6250	.8462	25.7	- 67.4	•002523	,83
	•5923	1.2514	21.3	- 56.3	•092523	.57
	1.0038	•9096	2 . B	135.0	:Ju2827	.01
	1.0192	•1592	17.9	- 6.3	•0u2584	.41
	1.0173	.5173	15.4	39.8	•002544	• 30
	1.0135	•8788	5.6	45.0	• 3u2445	• 34
	•9981	1.3154	22.5	- 74.3	,002445	• 62
	1.3885	.0192	21.3	21.8	.062473	• 56
	1.3846	.2038	19.7	• 6	• 902024	•51
	1.3846	•5442	27.7	- 4.1	•302390	• 92
	1.3558	•9019	20. c	- 73.3	.002454	•52
	1.2846	1.4019	44.5	- 77.2	·002454	2.43
	1.7942	.0135	4.4	63.4	•002470	• 02
	1.7923	•2596	11.8	- 90.0	.002624	.18
	1.7769	• 5885	7.1	33.7	•002390	.06
	1.7712	•9846	21.3	- 56.3	•Gu2454	• 56
	1.7577	1.6481	19.5	- 45.0	•0J2454	.47

Table B-VII. Front-Lower Grid Calculations - Model 35 with Baffle (Continued)

				CHE'T A	DENCITY	٥
TIME	X	Υ	(j	THETA	DENSITY	-
MICROSEC	INCHES	INCHES	FT/SEC	DEGREES	SLUGS/CUFT	ED/3011
636.90	.6263	.0000	62.2	180.0	·JU0825	1.60
	.6029	.8195	READINGS	INVALID		
	.6197	.4820			.002468	
	.6107	.8234	49.8	-141.3	.002424	3.01
	.6010	1.2390	39.9	-133.0	.002424	1.93
	1.0127	.0078	33.1	180.0	.002733	1.49
	1.0322	.1737	40.1	-166.0	002534	2.04
	1.0263	.5171	44.4	-156.8	.002612	2.58
	1.9127	.8732	54.5	-145.2	.002504	3.72
	.9951	1.3307	42.7	-149.9	.002504	2,28
	1,4049	.0156	26.1	-153.4	.002689	• 92
	1.4049	.1990	37.4	-128.7	·002569	1.86
	1,3951	.5483	42.1	-146.3	.002456	2.17
	1.3444	.9015	54.8	-152.5	.002413	3,62
	1.2743	1.3854	62.0	-131.2	.002413	4.64
	1.7776	.0078	41.0	-174,6	.002689	2.26
	1.7756	.2576	39.7	-168.7	•002669	2.10
	1.7815	.6049	36.3	164.5	.002456	1.62
	1.7659	9795	39.9	-137.0	.002413	1.92
	1.7522	1.6624	41.9	-111.8	.002413	2.12
678.00	.5635	•0600	5.9	180.0	READINGS	INVALID
0.000	NO READ!					
	.5942	.8077	17.0	- 54.5	•0u5239	. 75
	-5865	.8154	2.0	180.0	•002544	.00
	.5654	1.2231	34.0	-170.5	•002544	.73
	.9712	.0096	61.2	1.8	•002963	5.55
	.9808	.1596	26.0	- 81.3	.902516	• 85
	.9769	.5000	31.9	-111.8	. 002588	1.32
	.9692	.8481	32.1	-137.5	.002519	1.30
	.9615	1.2942	58.6	-122.6	.002519	4.32
	1.3654	.0077	61.5	-174.5	.002706	5.11
	1.3615	.1750	34.5	-156.4	.002577	1.53
	1.3500	.5212	50.9	-144.5	.002450	3.18
	1.3077	.8769	47.8	-128.3	.002421	2.76
	1.2442	1.3558	52.2	-100.9	.002421	3.30
	1.7538	•0036	28.3	167.9	.002706	1.08
	1.7538	.2519	21.3	-158.2	.002577	. 58
	1.7423	.5981	42.0	-131.2	•002450	2.16
	1.7423	.9577	30.1	-113.2	.002421	1.09
	1.7423	1.6095	67.2	- 86.6	.002421	5.47

Table B-VII. Front-Lower Grid Calculations - Model 35 with Baffle (Continued)

TIME	X	Y	U	THETA	DENSITY	Q + D 4505T
MICROSEC	INCHES	INCHES	FT/SEC	DEGREES	SLUGS/CUFT	LB/SQFT
719.20	•6205	.0000	21.4	•0	•0u2958	. 68
	.6205	.1171	READINGS	INVALID		
	.6205	.4683				
	.6088	.8234	24.4	151.4	.002607	. 77
	5776،	1.2351	16.0	166.C	.002607	. 34
	1.0732	.G078	9,9	11.3	.003803	.19
	1.0361	.1483	17.5	- 90.0	·0u2843	.44
	1.0146	.48/8	1.9	0.081	0u2754	• 01
	•9893	.8488	9.7	180.0	•002562	.12
	• 9639	1.2829	21.5	-174.8	•002562	, 59
	1.3444	.0048	23.7	170.5	•002689	. 75
	1.3737	.1854	20.3	163.3	.002725	• 56
	1.3541	.5190	17.6	-173.7	·002391	. 37
	1.3151	.8644	8.7	153.4	•002471	• 09
	1.2644	1.3346	33.1	-176.6	·0u2471	1.36
	1.7502	.0137	22.2	-164.7	.002689	• 66
	1.7561	•2498	21.5	-174.8	•002725	•63
	1.7541	.5737	27.1	-111.0	.002391	• 88
	1.7541	•9522	26.5	-144.0	•002471	- 86
	1.7561	1.5961	11.8	- 99.5	.002471	•17
760.40	•5846	•0000	3.9	• 0	·0u3237	•93
	•5846	•1269	38,9	- 59.5	.002399	1.82
	•5731	•4519	30-1	- 66.8	.002433	1.10
	.5654	.8269	25.0	- 71.6	.002554	.80
	•5500	1.2269	10.1	-101.3	.002554	•13
	•9808	.0115	48.4	-168.2	•0u3358	3.93
	.9808	•1473	17.6	-116.6	•0u2599	•40
	•9750	•5000	18.2	- 40.6	.002617	• 43
	•9596	.8481	47.1	- 33.0	•0u2562	2.34
	.9404	1.2923	17.0	- 54.5	.002562	± 37
	1.3423	.0115	36.0	- 9.5	.002671	1.73
	1.3423	.1808	30.2	- 78.7	• 302688	1.22
	1.3327	•5192	34.9	- 42.7	.002422	1.45
	1.3000	8688	30.8	- 50.2	•0u2382	1.13
	1.2115	1.3538	24.0	-170.5	.002382	.69
	1.7327	•0038	33.7	- 20.6	.002671	1.52
	1.7327	-2500	37.7	- 47.1	•002688	1.91
	1.7327	•5731	33.6	- 40.2	.002422	1.37
	1.7212	•9423	22.1	~ 79.7	.002382	.58
	1.7404	1.5981	53.6	- 96.3	.002382	3.42

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Table B-VII. Front-Lower Grid Calculations - Model 35 with Baffle (Continued)

TIME	X	Y	U	THETA	DENSITY	Q
MICROSEC	INCHES	INCHES	FT/SEC	DEGREES	SLUGS/CUFT	LB/SOFT
801.60	.6244	.0000	23.3	• 0	•003881	1.06
831.00	•6400	.0839	26.1	- 26.6	.002381	.81
	•6322	.4410	40.5	54.8	.002457	2.01
	.6166	.8000	9.7	53.1	·0ú2391	.11
	•5756	1.2254	15.7	119.7	.002391	•29
	1.0263	.0000	14.0	- 33.7	.003631	• 36
	1.0283	.1327	11.8	- 9.5	.002718	•19
	1.0283	.4761	8.7	26.6	.002850	•11
	1.0283	.8234	11.8	- 9.5	.002670	•19
	•9737	1.2683	12.5	141.3	.002670	.21
	1.3795	.0039	1.9	- 89.7	•002891	.01
	1.3795	.1561	3.9	•0	.002624	.02
	1.3795	•4956	15.6	•0	.002420	• 29
	1.3346	.8410	3.9	- 89.9	•0û2460	• 02
	1.2410	1.3307	• 0	• C	,002460	• 00
	1.7815	•0020	17.6	6.3	.002891	• 45
	1.7815	•2224	13.8	- 8.1	.002624	• 25
	1.7795	•5522	9.7	.0	.002420	•11
	1.7580	.9307	16.7	- 35.5	•002460	.34
	1.7502	1.5434	56.7	- 95.9	.002460	3.95
842.80	•6077	.0000	READINGS			
	•6077	.1154	FEADINGS			
	•5962	•4846	READINGS			
	.5712	.8346	READINGS			
	•5423	1.2404	READINGS			
	•9923	.0038	READINGS			
	•9923	.1404	READINGS			
	. 9827	•5038	READINGS	INVALID		
	.9712	.8462	READINGS			
	.9308	1.3000 .0096		INVALID		
	1.3423 1.3462	.1808	REAGINGS			
	1.3481	•5192	READINGS			
	1.3000	.8769	READINGS			
	1.2115	1.3538	READINGS			
	1.7500	•0058		INVALID		
	1.7462	.2481		INVALID		
	1.7423	.5731		INVALID		
	1.7346	.9327		INVALID		
	1.7346	1.5423		INVALID		

Table B-VII. Front-Lower Grid Calculations - Model 35 with Baffle (Continued)

TIME MICROSEC	X INCHES	Y INCHÉS	U FT/SEC	THETA DEGREES	DEHSITY SLUGS/CUFT	Q LB/SQFT
884.00	NO READIN	G				
	NO READIN	G				
	NO READIN					
	NO READIN					
	NC READIN					
	NO READIN					
	NO READIN					
	NO READIN					
	NO READIN					
	NO READIN					
	NO READIN					
	NO READIN					
	NO READIN					
	NO READIN					
	NO READIN	_				
	NO READIN					
	NO READIN					
	NO READIN	G				
	NO READIN					
925.20	•5827	.00€0	READINGS			
	.5827	.1269	READINGS			
	.5827	.4731	READINGS	INVALID		
	«5635	.8404	READINGS			
	•5288	1.2481	_			
	.9788	.0050	READINGS	INVALID		
	.9731	.1212 .4750	READINGS READINGS	INVALID		
	•9731 •9635	.8404	READINGS	INVALID		
	•8885	1.2750	READINGS	INVALED		
	1.3481	.0058	READINGS	INVALID		
	1.3500	.1750	READINGS			
	1.3288	.5058	READINGS			
	1.2808	.8481	READINGS			
	1.1654	1.3192	READINGS	INVALID		
	1.7558	•0096	READINGS			
	1.7558	.2135	READINGS			
	1.7500	•5442	READINGS	_		
	1.7365	.8904	READINGS			
	1.7115	1.5135	READINGS	INVALID		

Table B-VII. Front-Lower Grid Calculations - Model 35 with Baffle (Continued)

TIME	X	Y	U	THETA	DENSITY	Q
MICROSEC	INCHES	INCHES	FT/SEC	DEGREES	SLUGS/CUFT	LB/SQFT
966.40	•602	.0000	1.9	180.0	.003166	.01
	•607	.1229	13.8	- 98.1	.002400	. 23
	\mathfrak{c}	.4780	22.7	-121.0	.002436	•63
	• ₹ . 5	.8449	42.0	-103.4	.002549	2.25
	•5424	1.2663	11.0	135.0	•0ü2549	• 15
	•9659	.0078	15.2	50.2	•002822	. 33
	• 9990	.1620	20.0	60.9	.002600	•52
	•9990	•4956	12.3	-108.4	.002711	-21
	•3756	•8566	38.2	-104.7	•0û2563	1.87
	.8917	1.3210	17.9	-167.5	.0ú2563	•41
	1.3795	•0039	7.0	123.7	.002739	• 07
	1.3737	.1776	11.0	-135.0	002655	. 16
	1.3600	•5249	7.0	-123.7	•002673	.07
	1.3073	.8546	26.5	-107.1	.002407	. 84
	1.1668	1.3208	26.1	-153.4	.002407	• 82
	1.7659	•0020	2.8	-135.0	.002739	.0i
	1.7659	.2341	8.7	153.4	•002655	-10
	1.7522	•5600	19.2	-114.0	.002673	•49
	1.7307	。8956	39.4	-122.9	·0ú2407	1.87
	1.7132	1.5024	63.3	-107.9	.002407	4.83
1007.60	•5808	.0000	7.9	180.0	.003393	-11
	•5808	•1135	8.8	153.4	.002457	.10
	•5712	.4538	8.1	-166.0	•0025 6 1	• 08
	•5538	-8000	14.2	-123.7	·0u2447	25 ء
	•5212	1.2558	20.1.	168.7	·0ú2447	• 50
	• 9885	.0115	13.8	• 0	•003598	. 34
	.9827	•1385	25.3	-141.3	.002759	• 88
	•9692	•4635	9.9	180.6	.002885	.14
	•9538	.8038	35.3	-153.4	•0û2550	1.59
	.8712	1.2712	29.3	-137.7	.002550	1.10
	1.3442	.0115	38.0	171.0	•0ú29¢4	2.09
	1.3423	.1673	15.9	-150.3	•002656	. 34
	1.3250	•5000	38.5	-149.5	•0u2586	1.96
	1.2731	•8231	36.9	-164.5	•002367	1.61
	1.1423	1.3077	41.4	180.0	.002367	2.03
	1.7538	.0077	19.1	78.7	*002904	•15
	1.7481	.2173	8.4	-135.0	•002656	• 09
	1.7423	• 5269	8.1	- 76.0	.002586	• 09
	1.7154	.8577	16.9	~110.6	.002367	. 34
	1.6923	1.4538	39.3	- 72.5	•002367	1.83

是一个,我们是一个,我们是一个,我们是这个人,我们是一个人,我们是一个人,我们是一个人,我们是一个人,我们是一个人,我们是一个人,我们是一个人,我们是一个人,我们

Table B-VII. Front-Lower Grid Calculations - Model 35 with Baffle (Continued)

MICROSEC INCHES INCHES FT/SEC DEGREES SLUGS/CUFT LB/SQFT 1048.80 .5951 .0000 5.8 .0 .002410 .06 .5951 .1268 11.3 -59.0 .002410 .15 .5737 .8332 34.0 76.8 .002618 1.51 .5229 1.2702 15.6 90.0 .002618 .32 .9795 .0078 10.5 -158.2 .003288 .18 .9795 .1463 8.7 116.6 .002647 .10 .9893 .4956 21.7 53.4 .002829 .124 .9702 1.3015 33.6 100.0 .002623 1.24 .8702 1.315 33.6 100.0 .002623 1.24 .8702 1.315 33.6 100.0 .002623 1.24 .8702 2.0315 33.6 100.0 .002623 1.24 .8702 .002265 36.0 .002763	TIME	x	Y	U	THETA	DENSITY	Q
.5951 .1268 11.3 -59.0 .002410 .15 .5951 .4761 24.1 76.0 .002605 .75 .5737 .8332 34.0 76.8 .002618 1.51 .5737 .8332 34.0 76.8 .002618 1.51 .5737 .8332 34.0 76.8 .002618 1.51 .5229 1.2702 15.6 90.0 .002618 .32 .9795 .0078 10.5 -158.2 .003289 .18 .9795 .1463 8.7 116.6 .002647 .10 .9893 .4956 21.7 53.4 .002850 .67 .9444 .8410 30.8 108.4 .002623 1.24 .8702 1.3015 33.6 100.0 .002623 1.48 1.3424 .0099 31.2 - 3.6 .002792 1.36 1.3600 .1698 30.2 - 14.9 .002553 1.17 1.3268 .5054 26.5 36.0 .002467 .86 1.2722 .8449 35.8 67.6 .002265 1.45 1.1259 1.3288 37.4 117.9 .002265 1.59 1.7678 .0117 8.3 -45.0 .002792 10 1.7600 .2283 8.7 26.6 .002265 1.59 1.7749 .8800 25.6 98.7 .002265 .74 1.7249 .8800 25.6 98.7 .002265 .98 1.7249 .8800 25.6 98.7 .002265 .98 1.7249 1.4654 29.4 - 97.6 .002265 .98 1.7249 1.4654 29.4 - 97.6 .002265 .98 1.5865 .0030 19.7 180.0 .003477 .68 .5865 .1038 19.8 -174.3 .002322 .46 .5769 .4769 21.3 158.2 .002535 .57 .5615 .8327 16.9 159.4 .002556 .36 .5212 1.2712 37.1 64.8 .002556 .36 .5212 1.2712 37.1 64.8 .002556 .36 .5212 1.2712 37.1 64.8 .002556 .76 .9788 .0077 6.2 - 71.6 .003252 .06 .9788 .4827 29.3 160.3 .002631 1.13 .9442 .8327 19.8 174.3 .002255 .36 .3750 .0096 15.9 172.9 .003045 .39 1.3712 .1596 43.8 172.2 .002756 2.65 1.3462 .5154 26.3 -167.0 .002549 .88 1.2865 .8598 10.1 168.7 .002515 1.26 1.7596 .0019 35.5 180.0 .003045 1.92 1.7596 .0019 35.5 180.0 .003045 1.92 1.7596 .0019 35.5 180.0 .002556 .82 1.7365 .5212 24.4 -166.0 .002554 .82 1.7365 .5212 24.4 -166.0 .002554 .82 1.7365 .5212 24.4 -166.0 .002554 .82		INCHES	INCHES	FT/SEC	DEGREES	SLUGS/CUFT	LB/SQFT
.5951 .1268 11.3 -59.0 .002410 .15 .5951 .4761 24.1 76.0 .002605 .75 .5737 .8332 34.0 76.8 .002618 1.51 .5737 .8332 34.0 76.8 .002618 1.51 .5737 .8332 34.0 76.8 .002618 1.51 .5229 1.2702 15.6 90.0 .002618 .32 .9795 .0078 10.5 -158.2 .003289 .18 .9795 .1463 8.7 116.6 .002647 .10 .9893 .4956 21.7 53.4 .002850 .67 .9444 .8410 30.8 108.4 .002623 1.24 .8702 1.3015 33.6 100.0 .002623 1.48 1.3424 .0099 31.2 - 3.6 .002792 1.36 1.3600 .1698 30.2 - 14.9 .002553 1.17 1.3268 .5054 26.5 36.0 .002467 .86 1.2722 .8449 35.8 67.6 .002265 1.45 1.1259 1.3288 37.4 117.9 .002265 1.59 1.7678 .0117 8.3 -45.0 .002792 10 1.7600 .2283 8.7 26.6 .002265 1.59 1.7749 .8800 25.6 98.7 .002265 .74 1.7249 .8800 25.6 98.7 .002265 .98 1.7249 .8800 25.6 98.7 .002265 .98 1.7249 1.4654 29.4 - 97.6 .002265 .98 1.7249 1.4654 29.4 - 97.6 .002265 .98 1.5865 .0030 19.7 180.0 .003477 .68 .5865 .1038 19.8 -174.3 .002322 .46 .5769 .4769 21.3 158.2 .002535 .57 .5615 .8327 16.9 159.4 .002556 .36 .5212 1.2712 37.1 64.8 .002556 .36 .5212 1.2712 37.1 64.8 .002556 .36 .5212 1.2712 37.1 64.8 .002556 .76 .9788 .0077 6.2 - 71.6 .003252 .06 .9788 .4827 29.3 160.3 .002631 1.13 .9442 .8327 19.8 174.3 .002255 .36 .3750 .0096 15.9 172.9 .003045 .39 1.3712 .1596 43.8 172.2 .002756 2.65 1.3462 .5154 26.3 -167.0 .002549 .88 1.2865 .8598 10.1 168.7 .002515 1.26 1.7596 .0019 35.5 180.0 .003045 1.92 1.7596 .0019 35.5 180.0 .003045 1.92 1.7596 .0019 35.5 180.0 .002556 .82 1.7365 .5212 24.4 -166.0 .002554 .82 1.7365 .5212 24.4 -166.0 .002554 .82 1.7365 .5212 24.4 -166.0 .002554 .82							2.
*5951	1048.80		.0000				
*5737			-				
*5229 1.2702 15.6 90.0 .002618 .32 *9795 .0078 10.5 -158.2 .003288 .18 *9795 .1463 8.7 116.6 .002647 .10 *9893 .4956 21.7 53.4 .002850 .67 *9444 .8410 30.8 108.4 .002623 1.24 *8702 1.3015 33.6 100.0 .002623 1.48 1.3424 .0098 31.2 - 3.6 .002792 1.36 1.3600 .1698 30.2 - 14.9 .002563 1.17 1.3268 .5054 26.5 36.0 .002467 .86 1.2722 .8449 35.8 67.6 .002265 1.45 1.1259 1.3288 37.4 117.9 .002265 1.59 1.7678 .0117 8.3 -45.0 .002792 .10 1.7600 .2283 8.7 26.6 .002563 .10 1.7541 .5522 8.3 -135.0 .002467 .08 1.7249 .8890 25.6 98.7 .002265 .74 1.7249 .8890 25.6 98.7 .002265 .74 1.7249 .8890 25.6 98.7 .002265 .74 1.7249 .14654 29.4 - 97.6 .002265 .74 1.7249 .1665 .0000 19.7 180.0 .003477 .68 **5865 .1038 19.8 -174.3 .002232 .46 **5769 .4769 21.3 158.2 .002535 .57 **5615 .8327 16.9 159.4 .002556 .36 **5212 1.2712 37.1 64.8 .002569 .36 **5212 1.2712 37.1 64.8 .002569 .36 **5212 1.2712 37.1 64.8 .002569 .36 **5212 1.2712 37.1 64.8 .00							
**************************************		•5737	.8332				
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1.3424			-			•	
1.3424 .0098 31.2 - 3.6 .002792 1.36 i.3600 .1698 30.2 - 14.9 .002563 1.17 1.3268 .5054 26.5 36.0 .002467 .86 1.2722 .8449 35.8 67.6 .002265 1.45 1.1259 1.3288 37.4 117.9 .002265 1.59 1.7678 .0117 8.3 - 45.0 .002792 .10 1.7600 .2283 8.7 26.6 .002563 .10 1.7541 .5522 8.3 -135.0 .002467 .08 1.7249 .8830 25.6 98.7 .002265 .74 1.7249 1.4664 29.4 - 97.6 .002265 .98 1.090.00 .5865 .0050 19.7 180.0 .003477 .68 .5865 .1038 19.8 -174.3 .002322 .46 .5769 .4769 21.3 158.2 .002535 .57 .5615 .8327 16.9 159.4 .002556 .36 .5212 1.2712 37.1 64.8 .002556 .36 .5212 1.2712 37.1 64.8 .002556 1.76 .9788 .0077 6.2 - 71.6 .003262 .06 .9788 .1462 4.4 63.4 .002474 .02 .9788 .4827 29.3 160.3 .002631 1.13 .9442 .8327 19.8 174.3 .002482 .69 .9462 .8327 19.8 174.3 .002482 .69 .8654 1.3038 31.6 176.4 .002482 .69 .8654 1.3038 31.6 176.4 .002482 .69 .8655 .8558 10.0 1 16.8 7 .002515 1.26 1.3462 .5154 26.3 -167.0 .003515 1.26 1.7558 .2212 24.4 .166.0 .002549 .88 1.2865 .8558 10.0 1 .68.7 .002549 .88 1.2865 .8558 10.0 1 .68.7 .002549 .88 1.2865 .8558 10.0 1 .68.7 .002515 1.26 1.7558 .2212 24.4 .166.0 .002549 .82 1.7365 .5212 41.5 -154.7 .002549 2.19 1.7115 .8827 28.3 -167.9 .002515 1.00		•9444					
1.3600 .1698 30.2 - 14.9 .002563 1.17 1.3268 .5054 26.5 36.0 .002467 .86 1.2722 .8449 35.8 67.6 .002265 1.45 1.1259 1.3288 37.4 117.9 .002265 1.59 1.7678 .0117 8.3 - 45.0 .002792 .10 1.7600 .2283 8.7 26.6 .002563 .10 1.7541 .5522 8.3 -135.0 .002467 .08 1.7249 .8800 25.6 98.7 .002265 .74 1.7249 1.4654 29.4 - 97.6 .002265 .98 1.970.00 .5865 .0000 19.7 180.0 .003477 .68 .5865 .1038 19.8 -174.3 .002322 .46 .5769 .4769 21.3 158.2 .00253 .57 .5615 .8327 16.9 159.4 .002556 .36 .5212 1.2712 37.1 66.8 .002556 .36 .5212 1.2712 37.1 66.8 .002556 1.76 .9788 .0077 6.2 -71.6 .0032C2 .06 .9788 .4827 29.3 160.3 .002474 .02 .9788 .4827 29.3 160.3 .002431 1.13 .9442 .8327 19.8 174.3 .002482 .69 .8654 1.3038 31.6 176.4 .002482 1.24 1.3750 .0096 15.9 172.9 .003045 .39 1.3712 .1596 43.8 172.2 .002756 2.65 1.3462 .5154 26.3 -167.0 .002515 1.3 1.1250 1.3404 31.6 -176.4 .002515 1.3 1.1250 1.3404 31.6 -176.4 .002515 1.3 1.1250 1.3404 31.6 -176.4 .002515 1.26 1.7558 .2212 24.4 -166.0 .002756 .82 1.7755 .5212 4.57 28.3 -167.9 .002549 2.19		.9702	1.3015				
1.3268 .5054 26.5 36.0 .002467 .86 1.2722 .8449 35.8 67.6 .002265 1.45 1.1259 1.3288 37.4 117.9 .002265 1.59 1.7678 .0117 8.3 - 45.0 .002792 .10 1.7600 .2283 8.7 26.6 .002563 .10 1.7541 .5522 8.3 -135.0 .002467 .08 1.7249 .8800 .25.6 98.7 .002265 .74 1.7249 1.4654 .29.4 - 97.6 .002265 .98 1.090.00 .5865 .0000 19.7 180.0 .003477 .68 .5865 .1038 19.8 -174.3 .002265 .57 .5615 .8327 16.9 159.4 .002556 .36 .5212 1.2712 37.1 64.8 .002556 1.76 .9788 .0077 6.2 -71.6 .003262 .06 .9788 .4827 .29.3 160.3 .002631 1.13 .9442 .8327 19.8 174.3 .002482 .49 .8654 1.3038 31.6 176.4 .002482 .49 .8654 1.3038 31.6 176.4 .002482 .49 .8654 1.3038 31.6 176.4 .002482 .49 .8654 1.3038 31.6 176.4 .002482 .49 .8654 1.3038 31.6 176.4 .002482 .49 .8654 1.3038 31.6 176.4 .002482 .49 .8654 1.3038 31.6 176.4 .002482 .49 .8654 1.3038 31.6 176.4 .002482 .49 .8654 1.3038 31.6 176.4 .002482 .49 .8654 1.3038 31.6 176.4 .002482 .49 .8654 1.3038 31.6 176.4 .002482 .49 .8654 1.3038 31.6 176.4 .002515 1.3 1.3712 .1596 43.8 172.2 .002796 .36 1.3462 .5154 .26.3 -167.0 .002549 .88 1.2865 .8598 10.1 168.7 .002515 1.3 1.1250 1.3404 31.6 -176.4 .002515 1.20 1.7598 .2212 .24.4 -166.0 .002756 .82 1.7365 .5212 41.5 -154.7 .002549 .2.19 1.7115 .8827 .28.3 -167.9 .002515 1.00		1-3424	.0098				
1.2722 .8449 35.8 67.6 .0u2265 1.45 1.1259 1.3288 37.4 117.9 .0u2265 1.59 1.7678 .0117 8.3 -45.0 .0u2792 .10 1.7600 .2283 8.7 26.6 .0u2563 .10 1.7541 .5522 8.3 -135.0 .0u2467 .08 1.7249 .8800 25.6 98.7 .0u2265 .74 1.7249 1.4654 29.4 - 97.6 .0u2265 .98 1.090.00 .5865 .0000 19.7 180.0 .0u3477 .68 .5865 .1038 19.8 -174.3 .0u2222 .46 .5769 .4769 21.3 158.2 .0u2535 .57 .5615 .8327 16.9 159.4 .0u2556 .36 .5212 1.2712 37.1 64.8 .0u2556 1.76 .9788 .0077 6.2 -71.6 .0u3262 .66 .9788 .1462 4.4 63.4 .0u2556 1.76 .9788 .1462 4.4 63.4 .0u2474 .02 .9788 .4827 29.3 160.3 .0u2631 1.13 .9442 .8327 19.8 174.3 .0u2482 .69 .8654 1.3038 31.6 176.4 .0u2482 .69 .8655 .0u96 15.9 172.9 .0u3045 .39 1.3712 .1596 43.8 172.2 .0u2756 2.65 1.3462 .5154 26.3 -167.0 .0u2549 .88 1.2865 .8598 10.1 168.7 .0u2515 1.26 1.7558 .2212 24.4 -166.0 .0u2756 .82 1.7765 .5212 41.5 -154.7 .0u2549 2.10 1.7115 .8827 28.3 -167.9 .0u2549 2.10		i.3600					
1.1259 1.3288 37.4 117.9 .002265 1.59 1.7678 .0117 8.3 - 45.0 .002792 .10 1.7600 .2283 8.7 26.6 .002563 .10 1.7541 .5522 8.3 -135.0 .002467 .08 1.7249 .8800 25.6 98.7 .002265 .74 1.7249 1.4654 29.4 - 97.6 .002265 .98 1090.00 .5865 .0000 19.7 180.0 .903477 .68 .5865 .1038 19.8 -174.3 .002322 .46 .5769 .4769 21.3 158.2 .002535 .57 .5615 .8327 16.9 159.4 .002556 .36 .5212 1.2712 37.1 64.8 .002556 .36 .5212 1.2712 37.1 64.8 .002556 1.76 .9788 .0077 6.2 - 71.6 .003262 .66 .9788 .1462 4.4 63.4 .002474 .02 .9788 .4827 29.3 160.3 .002631 1.13 .9442 .8327 19.8 174.3 .002482 .69 .8654 1.3038 31.6 176.4 .002482 .69 .8654 1.3038 31.6 176.4 .002482 .69 .8654 1.3038 31.6 176.4 .002482 .69 .8654 1.3038 31.6 176.4 .002482 .69 .8654 1.3038 31.6 176.4 .002482 .69 .8654 1.3038 31.6 176.4 .002556 1.24 1.3750 .0096 15.9 172.9 .003045 .39 1.3712 .1596 43.8 172.2 .002756 2.65 1.3462 .5154 26.3 -167.0 .002549 .88 1.2865 .8558 10.1 168.7 .002515 1.3 1.1250 1.3404 31.6 -176.4 .002515 1.26 1.7558 .2212 24.4 -166.0 .002756 .82 1.765 .5212 41.5 -154.7 .002549 2.10 1.7115 .8827 28.3 -167.9 .002515 1.00		1.3268	•5054				
1.7678		1.2722	.8449	35.8			
1.7600 .2283 8.7 26.6 .002563 .10 1.7541 .5522 8.3 -135.0 .002467 .08 1.7249 .8800 .25.6 98.7 .002265 .74 1.7249 1.4654 .29.4 - 97.6 .002265 .98 1090.00 .5865 .0000 19.7 180.0 .003477 .68 .5865 .1038 19.8 -174.3 .002322 .46 .5769 .4769 .21.3 158.2 .002535 .57 .5615 .8327 16.9 159.4 .002536 .36 .5212 1.2712 37.1 64.8 .002556 1.76 .9788 .0077 6.2 - 71.5 .0032C2 .06 .9788 .1462 4.4 63.4 .002474 .02 .9788 .4827 .29.3 160.3 .002631 1.13 .9442 .8327 19.8 174.3 .002482 .69 .8654 1.3038 31.6 176.4 .002482 1.24 1.3750 .0096 15.9 172.9 .003045 .39 1.3712 .1596 43.8 172.2 .002756 2.65 1.3462 .5154 26.3 -167.0 .002549 .88 1.2865 .8558 10.1 168.7 .002515 1.3 1.1250 1.3404 31.6 -176.4 .002549 .88 1.2865 .8558 10.1 168.7 .002515 1.3 1.17596 .0019 35.5 180.0 .003045 1.92 1.77558 .2212 24.4 -166.0 .002756 .82 1.7765 .5212 41.5 -154.7 .002549 2.10		1.1259	1.3288	37,4			
1.7541 .5522 8.3 -135.0 .002467 .08 1.7249 .8800 25.6 98.7 .002265 .74 1.7249 1.4654 29.4 -97.6 .002265 .98 1090.00 .5865 .0000 19.7 180.0 .003477 .68 .5865 .1038 19.8 -174.3 .002322 .46 .5769 .4769 21.3 158.2 .002535 .57 .5615 .8327 16.9 159.4 .002556 .36 .5212 1.2712 37.1 64.8 .002556 1.76 .9788 .0077 6.2 -71.6 .003262 .66 .9788 .1462 4.4 63.4 .002474 .02 .9788 .4827 29.3 160.3 .002631 1.13 .9442 .8327 19.8 174.3 .002482 .69 .8654 1.3038 31.6 176.4 .002482 1.24 1.3750 .0096 15.9 172.9 .003045 .39 1.3712 .1596 43.8 172.2 .002756 2.65 1.3462 .5154 26.3 -167.0 .002549 .88 1.2865 .8558 10.1 168.7 .002515 1.35 1.1250 1.3404 31.6 -176.4 .002515 1.25 1.7558 .2212 24.4 -166.0 .002756 .82 1.7365 .5212 41.5 -154.7 .002549 2.10		1.7678	.0117				
1.7249		1.7600	.2283	8.7	26.6		
1.7249 1.4654 29.4 - 97.6 .002265 .98 1090.00 .5865 .0000 19.7 180.0 .003477 .68 .5865 .1038 19.8 -174.3 .002322 .46 .5769 .4769 21.3 158.2 .002535 .57 .5615 .8327 16.9 159.4 .002556 .36 .5212 1.2712 37.1 64.8 .002556 1.76 .9788 .0077 6.2 - 71.6 .003202 .06 .9788 .1462 4.4 63.4 .002474 .02 .9788 .4827 29.3 160.3 .002631 1.13 .9442 .8327 19.8 174.3 .002482 .69 .8654 1.3038 31.6 176.4 .002482 .69 .8654 1.3038 31.6 176.4 .002482 1.24 1.3750 .0096 15.9 172.9 .003045 .39 1.3712 .1596 43.8 172.2 .002756 2.65 1.3462 .5154 26.3 -167.0 .002549 .88 1.2865 .8558 10.1 168.7 .002515 1.3 1.1250 1.3404 31.6 -176.4 .002515 1.3 1.1250 1.3404 31.6 -176.4 .002515 1.25 1.7596 .0019 35.5 180.0 .003045 1.92 1.7558 .2212 24.4 -166.0 .002756 .82 1.7365 .5212 41.5 -154.7 .002549 2.19 1.7115 .8827 28.3 -167.9 .002515 1.00		1.7541	•5522	8.3	-135.0	•0u2467	
1090.00		1.7249	.8800	25.6	98.7	.002265	
1090.00		1.7249	1.4654	29.4	- 97.6	•0ù2265	• 98
.5865 .1038	1090.00		.0000	19.7	180.0	•9u3477	
.5769 .4769 21.3 158.2 .002535 .57 .5615 .8327 16.9 159.4 .002556 .36 .5212 1.2712 37.1 64.8 .002556 1.76 .9788 .0077 6.2 -71.6 .003262 .06 .9788 .1462 4.4 63.4 .002474 .02 .9788 .4827 29.3 160.3 .002631 1.13 .9442 .8327 19.8 174.3 .002482 .69 .8654 1.3038 31.6 176.4 .002482 .69 .8654 1.3038 31.6 176.4 .002482 1.24 1.3750 .0096 15.9 172.9 .003045 .39 1.3712 .1596 43.8 172.2 .002756 2.65 1.3462 .5154 26.3 -167.0 .002549 .88 1.2865 .8558 10.0 168.7 .002515 1.3 1.1250 1.3404 31.6 -176.4 .002515 1.26 <t< td=""><td></td><td></td><td>.1038</td><td>19.8</td><td>-174.3</td><td>•0J2322</td><td></td></t<>			.1038	19.8	-174.3	•0J2322	
.5615 .8327 16.9 159.4 .002556 .36 .5212 1.2712 37.1 64.8 .002556 1.76 .9788 .0077 6.2 -71.6 .003202 .06 .9788 .1462 4.4 63.4 .002474 .02 .9788 .4827 29.3 160.3 .002631 1.13 .9442 .8327 19.8 174.3 .002482 .69 .8654 1.3038 31.6 176.4 .002482 .69 .8654 1.3038 31.6 176.4 .002482 1.24 1.3750 .0096 15.9 172.9 .003045 .39 1.3712 .1596 43.8 172.2 .002756 2.65 1.3462 .5154 26.3 -167.0 .002549 .88 1.2865 .8558 10.1 168.7 .002515 1.3 1.1250 1.3404 31.6 -176.4 .002515 1.26 1.7558 .2212 24.4 -166.0 .002756 .82			.4769	21.3	i58.2	• 0u2535	
.9788 .0077 6.2 - 71.5 .0032C2 .06 .9788 .1462 4.4 63.4 .002474 .02 .9788 .4827 29.3 160.3 .002631 1.13 .9442 .8327 19.8 174.3 .002482 .49 .8654 1.3038 31.6 176.4 .002482 1.24 1.3750 .0096 15.9 172.9 .003045 .39 1.3712 .1596 43.8 172.2 .002756 2.65 1.3462 .5154 26.3 -167.0 .002549 .88 1.2865 .8558 10.1 168.7 .002515 .13 1.1250 1.3404 31.6 -176.4 .002515 1.25 1.7596 .0019 35.5 180.0 .003045 1.92 1.7558 .2212 24.4 -166.0 .002756 .82 1.7365 .5212 41.5 -154.7 .002549 2.19 1.7115 .8827 28.3 -167.9 .002515 1.00			.8327	16.9	159.4	•002556	• 36
.9788 .0077 6.2 -71.6 .0032C2 .06 .9788 .1462 4.4 63.4 .002474 .02 .9788 .4827 29.3 160.3 .002631 1.13 .9442 .8327 19.8 174.3 .002482 .69 .8654 1.3038 31.6 176.4 .002482 1.24 1.3750 .0096 15.9 172.9 .003045 .39 1.3712 .1596 43.8 172.2 .002756 2.65 1.3462 .5154 26.3 -167.0 .002549 .88 1.2865 .8558 10.1 168.7 .002549 .88 1.250 1.3404 31.6 -176.4 .002515 1.26 1.7596 .0019 35.5 180.0 .003045 1.92 1.7558 .2212 24.4 -166.0 .002756 .82 1.7365 .5212 41.5 -154.7 .002549 2.19 1.7115 .8827 28.3 -167.9 .002515 1.00		.5212	1.2712	37.1	64.8	•0u2556	
.9788			.0077	6.2	- 71.6	.003262	
.9788 .4827 29.3 160.3 .002631 1.13 .9442 .8327 19.8 174.3 .002482 .69 .8654 1.3038 31.6 176.4 .002482 1.24 1.3750 .0096 15.9 172.9 .003045 .39 1.3712 .1596 43.8 172.2 .002756 2.65 1.3462 .5154 26.3 -167.0 .002549 .88 1.2865 .8558 10.1 168.7 .002549 .88 1.1250 1.3404 31.6 -176.4 .002515 1.25 1.7596 .0019 35.5 180.0 .003045 1.92 1.7558 .2212 24.4 -166.0 .002756 .82 1.7365 .5212 41.5 -154.7 .002549 2.19 1.7115 .8827 28.3 -167.9 .002515 1.00		.9788	.1462	4.4			• 02
.8654 1.3038 31.6 176.4 .002482 1.24 1.3750 .0096 15.9 172.9 .003045 .39 1.3712 .1596 43.8 172.2 .002756 2.65 1.3462 .5154 26.3 -167.0 .002549 .88 1.2865 .8558 10.1 168.7 .002515 .13 1.1250 1.3404 31.6 -176.4 .002515 1.25 1.7596 .0019 35.5 180.0 .003045 1.92 1.7558 .2212 24.4 -166.0 .002756 .82 1.7365 .5212 41.5 -154.7 .002549 2.19 1.7115 .8827 28.3 -167.9 .002515 1.00			.4827	29.3	160.3	•002631	
1.3750 .0096 15.9 172.9 .003045 .39 1.3712 .1596 43.8 172.2 .002756 2.65 1.3462 .5154 26.3 -167.0 .002549 .88 1.2865 .8558 10.1 168.7 .002515 .13 1.1250 1.3404 31.6 -176.4 .002515 1.25 1.7596 .0019 35.5 180.0 .003045 1.92 1.7558 .2212 24.4 -166.0 .002756 .82 1.7365 .5212 41.5 -154.7 .002549 2.19 1.7115 .8827 28.3 -167.9 .002515 1.00		.9442	.8327	19.8	174.3	•002482	
1.3712 .1596 43.8 172.2 .002756 2.65 1.3462 .5154 26.3 -167.0 .002549 .88 1.2865 .8558 10.1 168.7 .002515 .13 1.1250 1.3404 31.6 -176.4 .002515 1.25 1.7596 .0019 35.5 180.0 .003045 1.92 1.7558 .2212 24.4 -166.0 .002756 .82 1.7365 .5212 41.5 -154.7 .002549 2.19 1.7115 .8827 28.3 -167.9 .002515 1.00		.2654	1.3038	31.6	176.4		
1.3462 .5154 26.3 -167.0 .002549 .88 1.2865 .8558 10.1 168.7 .002515 .13 1.1250 1.3404 31.6 -176.4 .002515 1.25 1.7596 .0019 35.5 180.0 .003045 1.92 1.7558 .2212 24.4 -166.0 .002756 .82 1.7365 .5212 41.5 -154.7 .002549 2.19 1.7115 .8827 28.3 -167.9 .002515 1.00		1.3750	•0096	15.9	172.9	.003045	
1.3462 .5154 26.3 -167.0 .002549 .88 1.2865 .8558 10.1 168.7 .002515 .13 1.1250 1.3404 31.6 -176.4 .002515 1.25 1.7596 .0019 35.5 180.0 .003045 1.92 1.7558 .2212 24.4 -166.0 .002756 .82 1.7365 .5212 41.5 -154.7 .002549 2.19 1.7115 .8827 28.3 -167.9 .002515 1.00		1.3712	.1598	43.8	172.2	.002756	
1.2865 .8558 10.1 168.7 .002515 .13 1.1250 1.3404 31.6 -176.4 .002515 1.25 1.7596 .0019 35.5 180.0 .003045 1.92 1.7558 .2212 24.4 -166.0 .002756 .82 1.7365 .5212 41.5 -154.7 .002549 2.19 1.7115 .8827 28.3 -167.9 .002515 1.00			.5154	26.3	-167.0	•002549	.88
1.7596 .0019 35.5 180.0 .003045 1.92 1.7558 .2212 24.4 -166.0 .002756 .82 1.7365 .5212 41.5 -154.7 .002549 2.19 1.7115 .8827 28.3 -167.9 .002515 1.00			.8558	10.1	168.7	.002515	•13
1.7596 .0019 35.5 180.0 .003045 1.92 1.7558 .2212 24.4 -166.0 .002756 .82 1.7365 .5212 41.5 -154.7 .002549 2.19 1.7115 .8827 28.3 -167.9 .002515 1.00		-			-176.4		
1.7558 .2212 24.4 -166.0 .0u2756 .82 1.7365 .5212 41.5 -154.7 .0u2549 2.19 1.7115 .8827 28.3 -167.9 .0u2515 1.0u				35.5		.003045	1.92
1.7365 .5212 41.5 -154.7 .002549 2.19 1.7115 .8827 28.3 -167.9 .002515 1.00			-				
1.7115 .8827 28.3 -167.9 .002515 1.00					-154.7	.002549	2.19
						.002515	1 • Q0
					_		16.81

Table B-VII. Front-Lower Grid Calculations - Model 35 with Baffle (Continued)

TIME	×	Y	IJ	THETA	DENSITY	Q
MICROSEC	INCHES	INCHES	FT/SEC	DEGREES	SLUGS/CUFT	L6/SQFT
1131.20	•5756	•0000	52.5	180.Ú	.002981	4.11
	•5756	.1249	54.2	159.0	.002311	3.39
	•5756	.4839	33.3	-173.3	.002685	1.49
	•5580	.8390	43.5	169.7	.002752	2.60
	•5385	1.3034	58.3	154.3	·0u2752	4.67
	.9815	•0020	64.3	176.5	.003421	7.07
	.9815	.1502	58.5	-176.2	.002840	4.86
	•\$520	•5054	76.7	171.3	.002810	8.28
	•9249	.8429	69.5	162.1	.002591	6.26
	.8390	1.3034	75.5	145.5	·0ú2591	7.39
	1.3268	.0117	75.9	-178.5	.002799	8.06
	1.3171	.1756	72.2	175.4	.002638	6.87
	1.3015	•4995	78.7	-171.5	.002493	7.71
	1.2624	.8468	70.4	-173.7	.002581	6.40
	1.0946	1.3268	95.3	171.9	.002581	11.96
	1.7327	.0117	50.6	-177.8	.002799	3.58
	1.7366	•2224	60-6	174.5	.002638	4,84
	1.7171	•5346	64.9	171.4	.002493	5.25
	1.6976	.8741	61.1	170.8	.002581	4.81
	1.6234	1.4127	111.0	177.0	.002581	15.90
1172.40	•5346	.0050	5.9	• 0	•003406	+06
	•5365	.1231	20.1	78.7	.002505	.51
	•5442	.4731	39.7	116.6	.002677	2.11
	•5192	.8404	32.8	172.7	•002552	1.38
	•4692	1.2962	64.4	130.0	•002552	5.30
	.9154	.0115	16.3	166.0	.003309	.44
	.9212	.1423	27.9	171.9	.002530	• 99
	•9038	• 4942	33.6	176.6	•002628	1.48
	.8788	•8538	56,9	146.3	~002591	4.20
	.8038	1.3462	68.9	113.6	.002591	6.15
	1.3000	.0077	10.6	-158.2	.002789	.16
	1.3000	.1654	7.9	89.9	•092716	• 08
	1.2692	•5038	30.9	116.6	•002455	1.17
	1.2173	.8431	45.9	154.5	•092463	2.59
	1.0308	1.3538	81.4	129.1	.002463	8.15
	1.7096	•0000	17.6	-153.4	•002789	•43
	1.6962	• 2269	26.8	144.0	.002716	• 98
	1.6731	•5308	28.3	155.2	·002455	• 98
	1.6519	.8923	39.3	142.5	•002463	1.90
	1.5788	1.4308	42.2	-169.2	, 0ù2463	2.19

Table B-VII. Front-Lower Grid Calculations - Model 35 with Baffle (Continued)

TIME	X	Y	U EXTERC	THETA	DENSITY SLUGS/CUFT	Q LB/SQFT
MICROSEC	INCHES	INCHES	FT/SEC	DEGREES	3E663700F1	FD/24E1
1213.60	•5815	•0000	21.4	• 0	-002972	• 68
	.5795	.1444	24.8	45.0	· 0u2415	.74
	* 5580	.5190	22.8	110.0	.002778	.72
	.5405	.8663	27.2	90.0	.002658	• 99
	.4976	1.3522	54.8	83.9	·0u2658	3.99
	.9659	.0059	16.0	-166.0	.003144	.40
	.9541	.1541	22.2	164.7	.002579	•63
	•9288	.5073	11.7	180.0	.002618	.18
	.8780	.6741	8.3	135.0	•Cu2489	60 •
	.8117	1.3659	42.7	120.1	.002489	2.27
	1.3171	•0078	6.2	- 18.4	• 002648	• 05
	1.3171	.1834	8.7	116.6	·002675	,10
	1.2878	•5268	20.3	-163.3	.0u2544	. 52
	1.2215	.8663	27.3	175.9	•0J2535	. 94
	1.0439	1.3893	52.5	141.0	.002535	3.50
	1.7171	.0039	21.5	174.8	•002648	. 61
	1.7151	.2380	13.0	-153.4	•902675	.23
	1.6917	•5463	9.7	-143.1	•0ú2544	.12
	1.6595	•8859	38.6	-139.1	.002535	1.89
	1.5824	1.4049	66.5	-164.7	•002535	5.61
1254.86	•5558	.0000	17.8	180.0	•0ŭ3409	. 54
	•5538	.1404	29 -1	-118.3	•0û2664	1.13
	•5365	•4942	42.5	-111.8	.CO2681	2.42
	.5192	.8673	12.0	-170.5	•002542	.18
	.4750	1.3500	14.4	164.1	.002542	• 26
	•9000	•0077	14.4	-164.1	.002949	• 30
	•9000	.1481	22.1	-116.6	.002569	.63
	-8923	•4942	28.3	-155.2	•0u2693	1.07
	.8731	.8596	8.8	-116.6	.002638	.10
	•7827	1.3827	36.2	150.6	.062638	1.73
	1.3058	•0058	9.9	-143.1	.002900	•14
	1.2962	.1731	24.1	-125.0	•002760	.80
	1.2500	.4981	42.2	~127.4	•002471	2.20
	1.1904	.8500	38.3	-145.5	.002479	1.82
	•9904	1.3865	69.8	-171.9	.002479	6.03
	1.6885	.0019	63.2	178.2	•0ú2900	5.79
	1.6846	.2212	70.7	-149.9	.002760	6.91
	1.6654	•5250	45.4	-145.6	.002471	2.55
	1.6231 1.5154	.8673	58.3	-151.7	.002479	4.21
	102124	1.4135	52.5	-145.7	•QU2479	3.42

Table B-VII. Front-Lower Grid Calculations - Model 35 with Baffle (Continued)

TIME MICROSEC	X INCHES	Y	FT/SEC	THETA DEGREES	DENSITY SLUGS/CUFT	Q LB/SQFT
1296.00	•5639	•0000	3.9	180.ú	.003423	.03
	,5659	.1190	6.2	108.4	.002444	. 05
	.5424	.4800	21.7	116.6	.002629	•62
	. 5288	.8644	59.2	113.2	.002608	4.58
	•4839	1.3561	51.4	119.5	, 002608	3.44
	•9522	.0020	35.1	3.2	.003446	2.12
	.9444	.1346	20.9	21.8	•0u2617	•57
	.9034	•4956	10.5	68.2	.002686	.15
	.8741	.8663	29,7	121.6	. 302762	1.22
	.7805	1.3834	49.6	101.3	.002762	3.40
	1.3093	•0020	27.3	175.9	·003460	1.29
	1.3034	.1639	26.2	138.0	.002909	1.00
	1.2624	•4937	34.0	103.2	.002599	1.50
	1.1902	.3449	49.7	120.6	•0u2511	3,10
	•9756	1.3795	82.7	119.6	• 0ú2511	8.60
	1.6546	•0059	20.3	163.3	•0 u 3460	.71
	1.6546	.2029	29.8	168.7	.002909	1.29
	1.6546	.5210	30.4	153.4	.002599	1.20
	1.6098	. 8585	31.4	158.2	.002511	1.24
	1.5395	1.3756	32.1	166.0	.002511	1,29
1337.20	•5519	•0000	2.0	18 0. 0	.003011	.01
	•5519	.1462	26.0	98.7	.002485	.84
	•5269	•5135	22.1	79.7	.002451	•60
	•4962	.9212	20.1	101.3	•0ú2436	•49
	•4500	1.3942	26.5	116.6	•002436	. 85
	•9346	•0096	19.4	156.0	.003148	•59
	•9192	.1558	23.8	114.4	.002571	.76
	•8962	•5038	7.1	56.3	•002662	•07
	.8577	.8846	10.1	168.7	.002665	•13
	• 731	1.4308	39.5	143.1	.002665	2.08
	1.2788	.0077	11.2	135.0	.002797	.17
	1.2769	.1904	8.8	116.6	•002776	•11
	1.2423	•5308	17.6	116.6	.002534	• 39
	1.1654	.8923	29.7	176.2	•002478	1.09
	•9500	1.4577	26.8	107.1	.002478	•89
	1.6692	.0077	.0	•0	•002797	•00
	1.6558	•2269	10.1	- 11.3	.002776	•14
	1.6385	•5385	12.6	- 38.7 -108.4	• 002534	•20
	1.5942 1.4846	.8788 1.4212	6.2	-108.4	.002478	• 05
	104040	1+7616	83.7	145.6	•002478	8.69

Table B-VII. Front-Lower Grid Calculations - Model 35 with Baffle (Continued)

TIME	X	Y	U	THETA	DENSITY	0
MICROSEC	INCHES	INCHES	FT/SEC	DEGREES	SLUGS/CUFT	LB/SQFT
1378.40	•5620	•0000	21.4	180.0	.003050	.70
	•5620	.1444	21.7	-169.7	.002539	•60
	.5463	.5015	16.7	144.5	.002681	. 38
	.5249	.8839	8.7	-153.4	.002657	.10
	.4722	1.3795	9.7	36.9	·0u2657	.13
	.9346	.0098	25.3	180.0	•0 03228	1.03
	•9346	.1561	16.6	159.4	.902671	•37
	•9073	•5015	22.8	160.0	.002884	• 75
	.8644	.8683	38.4	149.5	.002624	1.93
	.7493	1.4068	50.9	136.5	·002624	3.40
	1.3015	.0098	7.0	-123.7	.003381	• 98
	1,2995	.1717	28.7	-118.3	.002791	1.15
	1.2546	•5093	37.2	-132.9	•0û2521	1.74
	1.1610	,8468	41.3	-138.8	.002413	2.06
	.9678	1.4049	27.2	180.G	•0ú2413	.89
	1.6546	.0059	27.3	-175.9	.0u3381	1.26
	1.6644	.2010	19.4	-143.1	.002791	•53
	1.6644	,5132	26.5	-126.ú	.002521	•88
	1.6078	.8527	30.8	-145.3	.002413	1.14
	1.4712	1.4224	109.3	174.9	.002413	14.42
1419.60	•5308	.0000	11.8	180.0	•0ü2985	•21
	•5308	.1423	21.0	131.2	·002438	• 54
	•5135	•5231	29.6	143.1	•002566	1.12
	•4885	.9173	70.3	128.2	.002620	6.47
	•4577	1.4000	49.8	123.7	•002620	3.25
	•9096	•0096	29.9	-172.4	·0U3186	1.42
	•9038	.1615	36.0	-170.5	.002700	1,75
	.8750	.5115	29.6	143.1	•002684	1.18
	•8250	.9038	35.6	123.7	.002619	1.66
	•7365	1.4654	75.0	144.6	.002619	7.37
	1.2750	.0019	49.3	180. G	.003112	3.79
	1.2635	.1654	47.4	180.0	.002788	3.13
	1.2173	.5038	47.7	150.3	•002466	2.81
	1,1346	.85/4	58.3	156.0	•002555	4.34
	•9231	1.4577	85.1	135.9	•002555	9.26
	1.6423	•0058	33.8	-173.3	.003112	1.78
	1.6404	.2154	43.5	177.4	.002788	2.63
	1.6231	•5173	65.1	180.0	•002466	5.23
	1.5692	.8615	46.4	-167.7	•092555	2.76
	1.3769	1.4308	106.4	169.3	•002555	14.47

Table B-VII. Front-Lower Grid Calculations - Model 35 with Baffle (Continued)

TIME	x	Y	U	THETA	DENSITY	Q
MICROSEC	INCHES	INCHES	FT/SEC	DEGREES	SLUGS/CUFT	L8/SQFT
1460.86	•5502	.0000	29.2	• 0	.003075	1.31
140000	.5483	.1600	14.8	23.2	.002528	.28
	•5229	.5190	2.8	- 45.0	.002445	•01
	•4820	.9385	12.5	- 38.7	,002718	•21
	.4449	1.4205	47.3	99.5	.002718	3.04
	.9054	0659	7.0	- 33.7	.0u3392	. 08
	.8995	.1502	15.7	- 7.1	. 302606	• 32
	.8839	.5190	11.3	31.0	.003081	.20
	.8449	.8976	15.2	- 39.8	.002674	• 31
	.6888	1.4498	16.6	159.4	.002674	•37
	1.2527	•0098	22.2	164.7	.003236	•8û
	1.2527	.1717	33.6	170.0	.002776	1.56
	1.2137	.5327	9.7	-143.1	.0)2643	.12
	1.1083	.8702	15.7	150.3	.002430	.30
	.9073	1.4634	45.2	115.5	.002430	2.49
	1.6215	.0020	35.2	- 6.3	•003236	2.01
	1.6215	.2029	20.0	- 29.1	.002776	• 56
	1.6000	•5132	15.7	- 82.9	.002643	• 32
	1.5629	.8429	29,2	- 93.8	.002430	1.04
	1.3678	1.4420	36.3	164.5	.002430	1.60
1502.00	•5596	•00 0 0	11.8	• 0	•002993	•21
	•5442	.1431	10.1	-101.3	.002406	•12
	.5154	•5212	5.6	45.0	·0J2599	• 04
	.4981	•9096	29.6	- 53.1	•002498	1.09
	•4500	1.4462	25.0	71.6	•CU2498	. 78
	.9154	.0058	10.1	- 11.3	.003527	.18
	•9192	.1596	17.0	54.5	•002995	•43
	.9846	•5173	8.1	104.0	•0¢2877	.10
	.8365	c 8 9 4 2	16.9	159.4	•002596	. 37
	.7212	1.4712	38.8	14.7	.002596	1.95
	1.2538	.0077	9.9	• 0	.002764	•13
	1.2308	.1712	5.6	135.0	.002674	• 04
	1.2095	.4961	39.7	-116.6	.002432	1.92
	1.1212	. 3731	8.8	63.4	.00248?	•10
	•9038	1.4981	12.5	71.6	•0ú2487	.19
	1.6769	.0019	42.2	10.8	.002764	2.46
	1.6577	.2058	26.8	- 17.1	.002674	• 96
	1.6250	•5019	22.5	15.3	.002432	• 62
	1.5673	.8327	19.6	158.2	.002487	•14
	1.3423	1.4404	57.2	180.0	.002487	4.07

Table B-VIII. Front-Upper Grid Calculations - Model 35 with Baffle

						_
TIME	X	Y	IJ	THETA	DENSITY	Q
MICROSEC	INCHES	INCHES	FT/SEC	DEGREES	SLUGS/CUFT	LB/SQFT
52.40	•6346	3.1385	112.2	- 6.1	•002308	14.54
	•6462	2.7442	125.5	- 32.7	.002468	19.43
	.6808	2.4038	65.6	- 80.8	.002315	4.53
	.7135	2.0885	30.9	- 75·L	•0u2494	1.19
	.7827	1.7346	14.1	- 45.0	.002494	• 25
	•9885	3.1365	59.9	- 3.8	.002184	3.92
	1.0115	2.7346	56.6	- 50.7	.002239	3.50
	1.0154	2.4731	79.3	- 64.7	.002335	7.35
	1.0308	2.1346	24.3	- 55.0	•002396	• 71
	1.0519	1.7538	27.1	36.0	002396	• 8 8
	1.3654	3.1404	47.4	- 14.6	•0ù2029	2.28
	1.3654	2.7192	39.9	~ 36.9	•902085	1.66
	1.3577	2.5046	48.0	- 48.4	.002174	2.50
	1.3462	2.1865	22.7	- 52.1	.002294	•59
	1.3538	1.7885	19.9	- 53.1	•002294	= 4.5
	1.7788	3.1423	4.0	89.9	•002029	•02
	1.7692	2.7135	28.2	- 81.9	•002085	.83
	1.7692	2.5577	42.0	- 95.4	.002174	1.92
	1.7577	2.2904	45.4	- 74.7	.002294	2.37
	1.7615	1.8402	33.9	- 61.9	•002294	1.32
93.20	•7063	3.1024	162.5	- 11.9	.002417	31.93
	•7063	2.7024	169.6	- 47.8	.002418	34.78
	.7083	2.3532	91.1	- 52.9	•002553	10.60
	•7259	2.0566	64.1	- 50.0	•002411	4.96
	•7805	1.7112	28.6	- 74.1	.002411	.94
	1.0420	3,1122	125.0	- 8.1	。0u2230	17.42
	1.0439	2.7005	93.1	- 24.9	.002155	9.35
	1.0517	2.4156	81.7	- 35.2	•0ú2630	8.78
	1.0517	2.1307	75.9	- 21.3	.002475	7.12
	1.0751	1.7639	42.9	15.9	•002475	2.28
	1.4088	3.1005	78.9	- 18.9	•002430	7.56
	1.3951	2.6927	63.5	- 21.8	•002359	4.475
	1.3951	2.4878	41.3	- 25.3	•002509	2.14
	1.3698	2.1834	20.5	- 16.7	.002361	•5û
	1.3600	1.7756	14.2	33.7	.002361	• 24
	1.7541	3.1044	31.1	- 55.3	.002430	1.17
	1.7541	2.6888	14.3	~164.1	.002359	• 24
	1.7463	2.5229	9.8	143.1	•002509	•12
	1.7620	2.2634	51.0	- 74.4	•062361	3.07
	1.7678	1.8302	11.8	•0	.902361	•16

Table B-VIII. Front-Upper Grid Calculations \cdot Model 35 with Baffle (Continued)

134.00 7904 3.1058 173.5 - 2.6 .002235 3 .7577 2.6212 201.5 - 61.7 .002791 5 .7346 2.3327 141.4 - 68.5 .002327 2 .7538 2.0404 85.6 - 62.2 .002470 .7904 1.7077 58.3 - 97.9 .002470 1.1096 3.1132 70.2 - 6.5 .002370	Q B/SOFT
134.00 7904 3.1058 173.5 - 2.6 .002235 3 .7577 2.6212 201.5 - 61.7 .002791 5 .7346 2.3327 141.4 - 68.5 .002327 2 .7538 2.0404 85.6 - 62.2 .002470 .7904 1.7077 58.3 - 97.9 .002470 1.1096 3.1132 70.2 - 6.5 .002370	R12()F1
.7577 2.6212 201.5 - 61.7 .002791 5 .7346 2.3327 141.4 - 68.5 .002327 2 .7538 2.0404 85.6 - 62.2 .002470 .7904 1.7077 58.3 - 97.9 .002470 1.1096 3.1132 70.2 - 6.5 .002370	
.7577 2.6212 201.5 - 61.7 .002791 5 .7346 2.3327 141.4 - 68.5 .002327 2 .7538 2.0404 85.6 - 62.2 .002470 .7904 1.7077 58.3 - 97.9 .002470 1.1096 3.1132 70.2 - 6.5 .002370	3.66
.7346 2.3327 141.4 - 68.5 .002327 2. .7538 2.0404 85.6 - 62.2 .002470 .7904 1.7077 58.3 - 97.9 .002470 1.1096 3.1132 70.2 - 6.5 .002370	6.66
.7538 2.0404 85.6 - 62.2 .002470 .7904 1.7077 58.3 - 97.9 .002470 1.1096 3.1132 70.2 - 6.5 .002370	3.25
.7904 1.7077 58.3 - 97.9 .002470 1.1096 3.1132 70.2 - 6.5 .002370	9.04
1.1096 3.1132 70.2 - 6.5 .0J2370	4.20
	5.84
1.0942 2.6962 112.8 - 54.3 .092439 1	5.52
	8.42
	6
	6.62
1.4385 3.1154 205.4 - 8.4 .002472 5	2,17
1.4231 2.6962 180.9 - 16.6 .002553 4	1.79
1.3942 2.4923 103.6 - 30.0 .002156 1	1.56
1.3654 2.1808 71.8 - 56.3 .002498	6.45
1.3654 1.7962 40.6 - 78.7 .002498	2.06
1.7962 3.1173 READINGS INVALID	
	5.00
1.7615 2.5635 115.5 - 15.0 .002156 1	4.39
	1,83
	2.23
	1.51
	4.05
	7.17
	8.38
	4.97
	7.52
	0.13
	5.35
	1.62
	9×71
	ALID
	1.80
	3.56
	1.58
	7.54
NO READING	
	4.24
	3.36
	5.23
1.7620 1.7893 59.4 - 55.8 .002481	4.37

Table B-VIII. Front-Upper Grid Calculations - Model 35 with Baffle (Continued)

TIME	X	Y	U	THETA	DENSITY	Q
MICROSEC	INCHES	INCHES	FT/SEC	DEGREES	SLUGS/CUFT	LB/SQFT
			05101466	7.11/A/ 10		
215.6u	.8212	3.1231	READINGS		002712	10.20
	.7327	2.4038	167.8	- 85.9	•00271-3	38.20
	•7173	2.1923	97.8	-123.4	-002482	11.87
	.7288	1.9635	61.5	-114.9	.002341	4.43
	•7308	1.6462	28.5	- 65.2	.002341	• 95
	1.2077	3.1115	205.6	- 3.3	.001942	41.05
	1,1462	2.6115	123.2	- 14.0	.002052	15.58
	1.1058	2.3192	98.7	- 43.4	.002410	11.73
	1.1000	2.0192	63.0	- 55.3	•002532	5,03
	1.1173	1.6885	58.6	- 54.7	.002532	4.35
	1.5423	3.1212	36.6	29.4	•002300	1.54
	1.5077	2.6442	6.3	-161.6	.002276	• 05
	1.4731	2.4308	45.1	- 45.0	.002359	2.40
	1.4404	2.1231	72.0	- 41.6	•002508	6.50°
	1.4231	1.7462	54.4	- 28.4	•002508	3.71
	1.8635	. 3,1231	READINGS	INVALID		
	1.8635	2.6923	10.2	-101.3	.002276	•12
	1.8538	2.5269	45.0	17.7	.002359	2.50
	1.8346	2.2462	77.0	- 10.4	.002508	7.43
-	1.8058	1.7981	86.1	- 5.3	002508 ،	9.28
256.40	NO READI	NG	READINGS	INVALID		
	.8117	2.3649	215.0	- 09.5	.002677	51.90
	.7063	2.1444	85.9	-100.5	.002222	8.20
	.7395	1.9278	53.6	- 66.3	.002289	3.29
	.7844	1.6293	59.0	- 60.0	.002289	3.98
	1.3112	3.0927	96.4	3.5	·002098	9.75
	1.2254	2.5815	148.7	- 33.7	.002184	24.14
	1.1727	2.2927	103.1	- 4G.4	.002524	13.41
	1.1376	1.9883	77.0	- 70.6	.002811	8.34
	1.1376	1.6585	51.7	- 81.3	-002811	3.75
	1.6390	3.0888	41.3	2.7		INVALID
	1.5590	2.6400	79.1	- 14.4	.002167	6.77
	1.5141	2.4059	84.5	- 30.7	.002288	8.18
	1.4615	2.0780	75.0	- 47.1	.002392	£.74
	1.4146	1.7112	82.6	- 72.0	.002392	8.16
	NO READI		•			
	1.9141	2.6712	62.1	- 18.4	.002167	4.18
	1.8985	2.5073	70.8	- 43.9	002288	5.74
	1.8654	2.2263	67.6	- 35.5	•002392	5.46
	1.8459	1.7815	73.0	- 23.8	.092392	6.37
				-540	*****	0431

Table B-VIII. Front-Upper Grid Calculations - Model 35 with Baffle (Continued)

	v	v	Ù	THETA	DENSITY	Q
TIME	X	Y	FT/SEC	DEGREES	SLUGS/CUFT	LB/SQFT
MICROSES	INCHES	INCHES	FIVSEC	DEGREES	32003700.1	
297.26	NO READII	NG	· · · - · · · -	INVALID		
	.6981	2.1962	217.6	-142.8	.003048	72.17
	.7019	2.1096	85.9	- 94.0	.002345	8.65
_	•7500	1.9154	59.8	- 91.9	.002484	4.44
	.8096	1.5952	64.9	- ?2.1	. 0u2484	5.23
	1.3019	3.1173	READINGS	INVALID		
	1.2673	2.5308	126.2	- 21.3	.092299	18.30
	1.1827	2.2538	105.6	- 91.1	. 002388	13.32
	1.1250	1.9481	63.9	- 86.4	.002402	4.90
	1.1250	1.6385	60.1	- 95.7	.002402	4.33
	1.5827	3.1231	6.0	•0	.002129	• 04
	1.5827	2.6250	62.9	- 79.0	.002118	4.19
	1.5442	2.3885	65.9	- 86.5	.002431	5.28
	1.4904	2.0692	42.8	- 62.2	.002354	2.15
	1.4481	1.6692	60.5	- 72.8	.002354	4.31
	1.9596	3.1019	READINGS	INVALID		
	1.9212	2.6731	39.3	- 24.0	.002118	1.63
	1.9038	2.4788	45.9	- 34.4	.002431	2.58
<i>⊒</i>	1.8885	2.2077	74.1	- 23.8	•002354	6.45
	1.8712	1.7692	53.9	- 94.2	.002354	3.43
338.00	NO READ!	NG	READINGS			
	.6420	2.2361	25.6	-147.5	.001855	-61
	.7005	2.0605	75.3	- 97.5	. 002506	7.10
	•7376	1.8693	57.8	-107.8	•002352	3.92
	.8039	1.5688	35.6	~ 96 , 3	•002352	1.49
	NO READI	NG				
	1.3405	2.5366	266.9	-123.0	.002492	88.77
	1.1707	2.1893	113.3	-115.7	٥02751	17.56
	1.1415	1.9259	50.1	- 78.7	.002597	3.26
	1.1317	1.6000	46.2	- 77.7	.002597	2.77
	1.6449	3.0888		INVALID		
	1.5707	2.5795		INVALID		
	1.5180	2.3415		S INVALID		
	1.4810	2.0410	63.3	- 97.1	•002256	4.52
	1.4322	1.6546	38.1	- 78.1	•002256	1.64
	NO READI	ING	READINGS			
	1.9493	2.6556	165.3	3.4	•001980	27.04
	1.9356	2.4820	178.8	- 1.3	.002114	33.78
	1.9317	2,1971	149.4	- 2.3	.002256	25.17
	1.8420	1.7288	136.7	- 7.4	•002256	21.06

Table B-VIII. Front-Upper Grid Calculations - Model 35 with Baffle (Continued)

TIME	X	Y	U	THETA	DENSITY	ŷ
MICROSEC	INCHES	INCHES	FT/SEC	DEGREFS	SLUGS/CUFT	
378.80	NC READI	NG	READINGS	INVALID		
	•6769	2.1827	131.6	- 54.9	.003778	32.71
	•6923	2.0365	63.3	- 61.8	.002714	5.44
	•7327	1.8615	71.8	- 91.6	.002433	6.26
	. 8058	1.5615	31.9	- 90.0	•0ù2433	1.24
	1.1000	3.1096	READINGS	INVALID		
	1.1250	2.3115	293.0	-122.5	READINGS	
	1.1346	2.1538	99.6	- 90.0	READINGS	
	1.1346	1.9000	67.0	- 67.2	•002564	5 _e 75
	1.1346	1.5942	30.4	- 58.4	.002564	1.19
	NO READI		READINGS	INVALID		
	NO READI					
	NO READ!					
	1.4827	2.0077	109.9	- 46.5	.001784	10.78
	1.4558	1.6327	52.9	- 70.2	.001784	2.50
	NO READI		READINGS			
	2.0827	2.6827	READINGS			
	2.0788	2.4750	71.2	- 72.1	READINGS	
	2.0346	2.2019	51.2	-103.5	.001784	2.34
	2.0938	1.7519	41.5	- 35.2	.001784	1.53
419.60	NO READI		READINGS			
	.7161	2.1307	46.2	-167.7	•603506	3.75
	•7298	2.0059	72.7	180.0	.002644	6.98
	.7356	1.7990	62.4	-151.8	.002517	4.90
	.8039	1.5376	44.8	-164.7	•002517	2.52
	NO READI		READINGS			
	1.1863	2.2946	115.3	-103.8	.00! 802	11.97
	1.1707	2.0917	103.7	-108.8	.002244	12.07
	1.1668	1.8654	61.4	-129.8	.002684	5.05
	1.1473	1.5746	36.9	-115.2	•002684	1.83
	NO READI		READINGS			
	1.7112	2.5698	READINGS			
	1.6215	2.3024	READINGS		0:040	
	1.5551	1.9629	118.7	- 34.2	•002695	18.98
		1.6059	86.7		•002693	10.12
	NO READI		READINGS	INVALIU		
	NO READI		22 7	24.4	000445	**
	1.9571	2.4156	23.7	- 24.4	.002661	• 75
	1.9200 1.8751	2.1483	52 . 8	- 45.0	.002693	3.75
	100137	1.7054	53.6	- 23.7	•902693	3.87

Table B-VII!. Front-Upper Grid Calculations - Model 35 with Baffle (Continued)

TIME	X	Y	U	THETA	DENSITY	Q
MICROSEC	INCHES	INCHES	FT/SEC	DEGREES	SLUGS/CUFT	LB/SQFT
460.40	NO READI	NG.	READINGS	INVALID		
100010	•6327	2.1731	105.2	155.4	.003941	21.81
	.6212	2.0365	105.5	169.1	.002714	15.11
	.6788	1.8327	21.2	138.8	.002432	•55
	.7635	1.5500	17.8	- 63.4	.002432	• 39
	NO READI		READINGS		0002.32	•3,
	1.0981	2.2019	220.1	-121.7	.001373	33.25
	1.1019	2.0577	122.6	-134.3	.001822	13.69
	1.0962	1.8538	73.8	-128.4	.0ù2076	5.65
	1.1192	1.5615	38.3	- 99.0	.002076	1.52
	NO READI	NG	READINGS	_		
	1.8096	2.5885	314.6	-141-2	.001784	88.31
	1.7173	2.2885	203.1	-137.4	.002104	43.39
	1.5788	1.9423	93.7	-150.7	·002123	9.31
	1.5385	1.6135	43.9	- 2.6	.002123	2.04
	NO READI	NG	READINGS			
	2.1509	2.7038	READINGS	INVALID		
	2.1000	2.4654	45.4	-164.7	.002104	2.17
	2,0712	2.1654	25.0	- 61.4	.002123	•66
	2.0519	1.7308	36.7	- 12.5	.002123	1.43
501.20	NO READI	NG	READINGS	INVALID		
	•6224	2.1737	53.9	123.1	.004564	6.64
	•6283	2.0254	27.9	129.3	•002859	1.11
	.7200	1.8127	16.2	14.0	.002641	• 35
	.8117	1.5220	9.8	53.1	.002641	•13
	1.0439	3.1024	READINGS	INVALID		
	1.0/32	2.1112	READINGS			
	1.0868	2.0059	91.0	- 32.7	•002983	12.34
	1.1220	1.8088	78.2	- 28.5	.002765	8.46
	1.1415	1.5376	45.2	•0	•002765	2.82
	1.6098	3.1005	RFADINGS	INVALID		
	1.4712	2.3766			.001912	
	1.4751	2.1678			.002187	
	1.4751	1.9180	35.0	- 38.2	•002447	1.50
	1.4927	1.6039	70.5	- 12.9	•002447	6.08
	1.8380	3.0985	READINGS			
	1.7678	2.5522	READINGS	INVALID		
	1.9141	2.4039		•	.002187	69.81
	1.9317	2.1268			.002447	904 78
	1.9102	1.6976		•	•002447	73.73

Table B-VIII. Front-Upper Grid Calculations - Model 35 with Baffle (Continued)

TIME	x	Y	U	THETA	DENSITY	Q
MICROSEC	INCHES	Sakoni	FT/SEC	DEGREES	SLUGS/CUF1	
542.00	NO READI		READINGS			
	•6038	2.2173	55•8	90.0	READINGS	INVALID
	•6038	2.0577	55,4	120.3	.002348	3.60
	•6942	1.8365	63.3	167.3	.002366	4.74
	•7692	1.5577	31.9	180.0	002366	1.20
	NO READI		READINGS	INVALID		
	NO READI					
	1.1769	2.0096	62.0	- 45.0	.002918	5.61
	1.1635	1.8173	18.4	- 77.5	.002261	• 38
	1.1635	1.5615	22.5	-135.0	.002261	•57
	NO READI		READINGS	INVALID		
	1.6019	2.3712	133.7	- 86.6	READINGS	CILAVAL
	1.6038	2.1327	73.8	- 88.5	.001394	3 .7 9
	1.6058	1.9212	61.8	- 91.8	.001551	2.96
	1.6058	1.5981	44.6	-116.6	.001551	1.54
	NO READI	NG	READINGS			
	NO READI	NG				
	2.3462	2.4404	305.1	- 66.1	.001394	64.90
	2.3365	2-1385	463.3	- 86.3	.001551	166.46
	2.2923	1.7288	READINGS		• • • • • • • • • • • • • • • • • • • •	
582.8C	NO READI	NG	READINGS			
	•6224	2.2283	86.3	101.8	.003725	13.87
	.6010	2.0722	38.7	120.5	.002452	1.84
	•6595	1.8263	70.8	-160.6	.002361	5.92
	. 7805	1.5220	59.7	-133.7	.002361	4.21
	NO READI	NG	READINGS			.,
	1.1298	2.0722	READINGS			
	1.1298	1.9629	114.7	-128.0	.003591	23.63
	1.1259	1.7912	83.5	-138.8	•002966	10.34
	1.1259	1.5220	81.0	-140.9	.002966	9.73
	NO READI	NG	READINGS		000200	7013
	1.4790	2.2459	READINGS			
	1.4771	2.0956	READINGS			
	1.4732	1.8576	79.1	-104.4	READINGS	INVAL TO
	1.4732	1. >649	47.5	-114.4	READINGS	
	NO READE		READINGS		WEND 11103	THINEID
	2.0644	2.4234	READINGS	INVALID		
	2.0351	2.1307	71.5	-159.1	.001421	3.63
	1.9610	1:6741	151.7	-158.7	READINGS	
	NO READII				WEND \$ 1103	THAMETO
		-				

Table B-VIII. Front-Upper Grid Calculations - Model 35 with Baffle (Continued)

TIME	x	Y	U	THETA	DENSITY	Q
MICROSEC	INCHES	INCHES	FT/SEC	DEGREES	SLUGS/CUFT	LB/SQFT
623.60	NO READIN	IG	READINGS			
	•5865	2.3000	72.2	83.7	.0031196	8.33
	-5846	2.0904	73.8	141.6	•002355	6.40
	.6288	1.8135	55.9	175.9	.002368	3.71
	•7288	1.5154	35.9	-160.6	•0ü2358	1.53
	NO READIN	IG.	READINGS			
	1.0904	2.0365	83.1	- 46.0	READINGS	
	1.1077	1.9212	82.4	- 57.8	READINGS	
	1.1019	1.7635	64.9	- 42.5	.002203	4.64
	1-1019	1.5115	48.0	- 48.4	.002203	2.54
	NO READIA	I G	READINGS	INVALID		
	NO READIN	lG				
	NO READIN	IG				
	1.5865	1.8462	39.3	- 59.5	.001934	1.49
	1.5865	1.5558	50.7	-135.0	.001934	2.49
	NO READIN	1G	READINGS	INVALID	-	
	NO READII	NG				
	2.2808	2.4154	288.6	76.8	READINGS	
	2.1981	2,0846	447.1	78.7	.001934	193.32
	2.1442	1.6577	READINGS	INVALID		
664.40	NO READII	VG	READINGS	INVALID		
	•6302	2.2985	READINGS	INVALID		
	-5444	2.1171	78.2	118.5	.002000	6.12
	.6049	1.8302	43.1	133.2	.001963	1.82
	.7473	1.5102	22.2	- 45.0	.001963	•48
	NO READII	NG	READINGS	INVALID		
	1.1863	2.0137	49.5	- 83.2	.001801	2.20
	1.1727	1.8946	41.3	-115.3	.002513	2.23
	1.1727	1.7483	32.0	-137.5	•0ú3554	1.82
	1.1571	1.4868	29.9	-113.2	•0ú3554	1.59
	NO READI	NG	READINGS	INVALID		
	1.8693	2.4917	READINGS			
	1.7737	2.2244	READINGS	INVALID		
	1-4927	1.8244	39.5	- 95.7	.002308	i-80
	1.4380	1.5298	46.7	-104.6	.002308	2.51
	NO READI	NG	READINGS			
	2.1405	2.6459	READINGS	INVALID		
	2.0995	2.4059	READINGS			
	2.0468	2.1034	181.0	15.1	.092308	37.82
	1.8829	1.6273	92.6	- 17.3	.002308	9.88

Table B-VIII. Front-Upper Grid Calculations - Model 35 with Baffle (Continued)

TIME	X	Y	ឋ	THETA	DENSITY	Q
MICROSEC	INCHES	INCHES	FT/SEC	DEGREES	SLUGS/CUFT	LB/SQFT
705-20	NO READI	NG	READINGS	INVALID		
	NO READI			INVALID		
	•5481	2.1577	131.0	81.3	.002220	19.06
	•6000	1.8442	74.7	133.9	.002278	6.35
	.7442	1.5000	49.9	-177.7	.002278	2.83
	NO READI	NG		INVALID		
	1.0962	1.9885	READINGS	INVALID		
	1.0904	1.8846	171.7	-176.7	READINGS I	NVALID
	1.0788	1.7423	170.0	-175.3	.002114	30.53
	1.0904	1.4846	123.5	180.0	.002114	16.13
	NO READI	NG	READINGS	INVALID		
	NO READI		READINGS	INVALID		
	NO READI	NG				
	1.5827	1.8077	97.2	-134.2	.001464	6.92
	1.5750	1.5115	47.5	-147.0	.001464	1.65
	NO READI		READINGS	INVALID		
	NO READI					
	NO READI	-				
	2.3692	2.1308	74.1	-143.7	.001464	4.02
	2.2308	1.6308	31.5	18.4	.001464	• 73
746.00	NO READI	_	READINGS			
	NO READI		READINGS			
	•5639	2.2439	99.7	57.9	.002169	10.78
	•5541	1.8829	72.9	104.0	•0û2356	6.26
	•6985	1.5083	48.8	139.9	•002356	2.80
	NO READE		READINGS			
	NO READI		READINGS			
	1.0049	1.8849	78.2	154.7	•003520	10.76
	1.0068	1.7346	62.0	169.0	•002962	5.70
	1.0361	1.4868	38.1	145.5	•002962	2.15
	NO READI	-	READINGS			
	NO READI		READINGS			
	1.4322	1.9473	READINGS			
	1.4263	1.7561	85.0	-139.7	•002332	8.42
	1.3990	1.5044	110.4	174.9	•0ú2332	14.21
	NO READII		READINGS			
	2.1444	2.6283	READINGS			
	2.1054	2.3844	READINGS			
	1.9883	2.0605	229.3	-155.2	•002332	61.32
	1.9122	1.6371	167.0	-178.5	•002332	32.53

Table B-VIII. Front-Upper Grid Calculations - Model 35 with Baffle (Continued)

TIME MICROSEC	X INCHES	Y INCHES	U FT/SEC	THETA DEGREES	DENSITY SLUGS/CUFT	Q LH/SQFT
786 _e 80	NO READI		READINGS			
	NO READI		READINGS PEADINGS	INVALID		
	.6000	2.2434	32.1	7.1	.002334	1.20
	.5827	1.9135	12.0	180.0	.002334	.17
	•7077	1.5308	_		4 UUL 3) T	***
	NO READI		READINGS READINGS			
	NO READI 1.0212	1.9173	48.2	-172.9	.002982	3.46
	1.0212	1.7538	49.3	-136.6	.002655	3.23
	1.0192	1.5058	26.0	- 94.4	.002655	.90
	NO READI		READINGS		*042033	• ,0
	1.5250	2.0442	READINGS			
	1.5288	1.9288	167.7	- 9.6	.001659	23.33
	1.5192	1.7538	63.3	- 28.2	.002131	4,27
	1.4673	1.5212	44.1	- 71.6	.002131	2.07
	NO READI		READINGS		•••••	
	NO READI		READINGS			
	2.3231	2,3865	81.3	- 59.0	.001559	5.49
	2.1654	2,0365	90.2	- 59.5	.002131	8.67
	2.0673	1.6250	87.0	-110.1	.002131	8.06
827.6)	NO READI	-	READINGS	INVALID		
	NO READI		READINGS			
	NO READI					
	.5854	1.8868	25.6	57.5	.002621	• 86
	•6868	1.5083	30.7	140.2	.002621	1.23
	NO READI	NG	READINGS			
	NO READI	NG	READINGS			
	•9580	1.8790	46.7	-165.4	:002432	2.65
	.9717	1.7015	65.3	173.1	•002592	5.52
	1.0341	1.4615	47.5	-172.9	•002592	2.92
	NO READI		READINGS			
	NO READ!		READINGS			
	1.5941	1.9200	86.8	-127.6	.002430	9.16
	1.4810	1.7268	67.6	~144.5	•002521	5.76
	1.4127	1.4634	33.4	- 93.4	.002521	1.41
	NO READI		READINGS			
	NO READ!		READINGS		002/20	0.34
	2.1463	2.3161	87.7	- 74.4	.002430	9,34
	2.0332	1.9844	96.4	- 33.4	.002521	11.72
	1.8829	1.5571	67.1	- 69.4	.002521	5.68

Table B-VIII. Front-Upper Grid Calculations - Model 35 with Baffle (Continued)

TIME	x	Y	U	THETA	DENSITY	Q
MICROSEC	INCHES	INCHES	FT/SEC	DEGREES	SLUGS/CUF1	
868.40	NO READI	NG	READINGS	INVALID		
	NO READI		READINGS			
	•6385	2.4788	READINGS	INVALID		
	•5962	1.9346	82.7	105.4	.002643	9.03
	•6846	1.5500	70.2	124.6	.002643	6.51
	NO READI	NG	READINGS	INVALID		
	NO READI	NG	READINGS	INVALID		
	•9769	1.9058	READINGS	INVALID		
	•9558	1.7615	102.4	142.9	.002483	13.02
	1.0135	1.50CO	57.1	155.2	.002483	4.04
	NO READI		READINGS			
	NO READI	NG	READINGS			
	1.4769	1.8615	218.7	-149.9	.001529	36.57
	1.4654	1.7154	89.1	-153.4	.001852	7.35
	1.4654	1.4885	18.8	-148.0	.001852	• 33
	NO READI	NG	READINGS			
	2.4019	2.5846	READINGS	INVALID		
	2.3462	2.3038	313.9	-124.4	.001529	75.32
	2,2442	1.9846	127.4	-117.0	.001852	15.04
	2.0904	1.5635	37.4	- 64.8	.001852	1.30
909.20	NO READI		READINGS			
	NO READI		READINGS			
	•6615	2.3317	80.2	59.C	READINGS	
	•5639	1.9649	53.4	126.0	.002727	3.89
	-6478	1.5649	21.2	-146.3	.002727	•62
	NO READI		READINGS			
	NO READI		READINGS	INVALID		
	NO READI					_
	.8917	1.7620	100.2	151.9	.002497	12.52
	•9834	1.4849	57.3	-157.8	.002497	4.09
	NO READI		READINGS			
	NO READI		REAUINGS			
	1.4088	1.8127	133.3	-136 _e 2	•002942	26.16
	1.4029	1.6878	115.5	-144.7	.002620	17.48
	1.3971	1.4537	116.9	-155.2	•0ú2620	17.89
	NO READI		READINGS			.
	1.9532	2.2185	164.1	-137.9	READINGS	
	1.9727	2.0624	50.3	-128.7	.002942	3.72
	1.9766	1.8732	162.8	-131.6	.0ú2620	34.70
	1.8985	1.5239	139.8	~150.6	•002620	25.61

Table 8-VIII. Front-Upper Grid Calculations - Model 35 with Baffle (Continued)

950.00 NO READING READINGS INVALID	Q B/SQFT 0.58 2.77
950.00 NO READING READINGS INVALID	0.58
NO READING READINGS INVALID	
	2 77
.6673 1.5365 19.9 180.0 .002629	. 52
NO READING READINGS INVALID	
.9115 2.0808 READINGS INVALID	
.8923 1.9500 READINGS INVALID	
	3.99
•9615 1.4788 61.4 166.9 • 002459	4.63
NO READING READINGS INVALID	
1.3885 1.8577 READINGS INVALID	
1,3827 1.7712 READINGS INVALID	
1.3731 1.6500 58.2 -128.0 .002123	3.60
1.3615 1.4404 95.5 -156.6 .002123	9.68
.0096- 19.3500 READINGS INVALID	
2.2827 2.4769 READINGS INVALID	
2.3154 2.2654 READINGS INVALID	
2.1385 1.8654 86.3 - 96.5 .002123	7.90
1.9712 1.4962 54.1 - 96.3 .002123	3.11
990.80 NO READING READINGS INVALID	
NO READING READINGS INVALID	
•6927 2.5210 READINGS INVALID	
•5893 2•0020 84•0 79•2 •002764	9.74
•6283 1•5649 61•7 127•2 •002764	5.26
NO READING READINGS INVALID	
NO READING READINGS INVALID	
**************************************	ALID
.8585 1.8068 42.9 74.1 .002431	2-24
•9249 1•4985 22•0 79•7 •002431	•59
NO READING READINGS INVALID	
NO READING READINGS INVALID	
NO READING	
1.3678 1.6429 30.7 - 50.2 .002575	1.21
1.3112 1.4166 22.9 - 59.0 .002575	-6 8
NO READING READINGS INVALID	
NO READING READINGS INVALID	
NO READING READINGS INVALID	
	8.79
1.8927 1.4712 193.5 - 5.8 .002575 4	8.18

Table B-VIII. Front-Upper Grid Calculations - Model 35 with Baffle (Continued)

TIME	×	Y	U	THETA	DENSITY	Q
MICROSEC	INCHES	INCHES	FT/SEC	DEGREES	SLUGS/CUF1	LB/SUFT
1031,60	RO READI	MC	READINGS	TNVAL ED		
7031400	NO READI		READINGS			
	NO READI		READINGS			
	•5808	2.0577	57.1	102.1	.002270	3.70
	•63Ç8	1.5865	54.2	126.9	.002270	3.33
	NO READI	_	READINGS		•0022.0	3433
	NO READI		READINGS			
	.8865	2.0635	212.6	~ 83.5	.002919	65.95
	.8808	1.8481	310.6	- 81.1	.002366	114.09
	.9654	1.5000	READINGS			20.00
	NO READI		READINGS			
	NO REACT	_	READINGS			
	1,4000	1.7442	READINGS			
	1.3923	1.6269	74.7	-170.8	.001968	5.49
	1,3731	1.4212	17.9	180.0	.001968	• 32
	NO READI	_	READINGS			• • •
	NO READI		READINGS			
	NO READI		READINGS			
	2.2212	1.7868	69.7	- 36,9	.001968	4.79
	2.1596	1.4769	34.1	-159.4	.001968	1.14
1072.40	NO READ!	NG	READINGS	INVALID		
	NO READI	NG	READINGS	INVALID		
	NO READI	NG	READINGS	INVALID		
	•5778	2.0566	33.6	69.4	READINGS	INVALID
	•5971	1.6078	46.0	140.2	READINGS	INVALID
	NG READI	NG	READINGS	INVALID		
	NO READI	NG	READINGS	INVALID		
	.8215	1.8615	READINGS	INVALID		
	•9054	1.5063	63.5	158.2	READINGS	ENVALID
	NG READI					
	NO READI		READINGS	INVALID		
	NO READI		READINGS			
	NO READI	NG	READINGS			
	1.2956	1.5312	45.3	-162.3	•002538	2.61
	1.2937	1.4166	84.5	178,7	.002538	9.05
•	NO READI		READINGS			
	NO READI		READINGS			
	NO READI		REACINGS		_	
	2.0215	1.7483	87.7	-146.0	•002538	9.76
	1.8615	1.4595	112.8	-148.5	•002538	16.16

Table B-VIII. Front-Upper Grid Calculations - Model 35 with Baffle (Continued)

TIME MICROSEC	X INCHES	Y INCHES	U FT/SEC	THETA DEGREES	CENSITY SLUGS/CUFT	Q LB/SQFT
1113.20	NO READI		READINGS			
	NO READI		READINGS			
	NO READI		READINGS			
	•5923	2.0835	56.7	79.9	•002597	4.17
	•5962	1.6154	22.3	116.6	.002597	.64
	NO READI		READINGS			
	NO READI		READINGS			
	NO READI		READINGS			
	.8231	1.8712	413.7	103.4	•002356	201.64
	•9038	1.5154	READINGS			
	NO READI		READINGS			
	NO READI		READINGS			
	NO READI	NG	READINGS			
	1.3500	1.6135	146.2	160.1	.002043	21.84
	1.2904	1.4231	74.2	173.8	.002043	5.62
	NO READI		READINGS	INVALID		
	NO READI		READINGS			
	NO READI		READINGS	INVALID		
	2.1500	1.7327	161.4	-147.1	.002043	26.60
	2.0654	1.4192	93.4	-146.3	.002043	8.91
1154.00	NO READI		READINGS	INVALID		
	NO READI		READINGS	INVALID		
	NO READI	· -	READINGS	INVALIC		
	•5873	2.1112	107.9	56.9	. 002649	15.41
	•5873	1.62/3	47.5	82.9	• 002649	2.99
	NO READI		READINGS	INVALID		
	NO READI		READINGS			
	NO READI	-	READINGS			
	.8117	1.9605	112.2	86.0	•002981	18.77
	•8722	1,5415	58.9	90.0	.002981	5.17
	NO READI		READINGS			
	NO READI		READINGS			
	NO READI		READINGS			
	1.1610	1.6800	92.3	150.7	.002407	10.26
	1.2215	1.4244	36.5	143.7	.002407	1.61
	NO READ!		READINGS			
	NO READI	•	READINGS			
	NO READI		READINGS			
	1.8888	1.6624	119.7	-139.0	.002407	17.25
	1.7854	1.4088	63.0	-175.4	.002407	4.77

Table B-IX. Front-Upper Grid Calculation - Model 36

Model 36, Shot 343

TIME	X	Y	į	THETA	DENSITY	Q
MICROSEC	INCHES	INCHES	FT/SEC	DEGREES	SLU35/CUF1	Lb/SQFT
25.00		NG		INVALID		
	.2895	2.7519	27.4	- 85.3	•00 <i>2</i> 525	• 95
	.2705	2.0476	9.8	-143.1	.002326	.11
	.2400	1.6590	37.1	126.7	.002588	1.98
	,2057	1.3010	19.9	101.3	.002588	•51
	NO READI	NG	READINGS	INVALID		
	• 5495	2.7929	23.0	102.1	.002284	.89
		2.0419	25.2	116.6	.092181	.75
	.5848	1.5514	34.5	153.5	.002377	1.43
	。5457	1.2781	21.0	158.2	.002377	•53
	ICABS CF	NS	READINGS	CIJAVNI		
	1.0495	2.8248	3.9	180.0	.002187	•32
	1.3457	2.0533	2.8	45.0	.002295	.01
	1.0362	1.6838	15.1	76.0	.002294	.30
	1.3357	1.1324	24.5	28.6	.002294	.59
	ICABF CV	NG	READINGS	INVALID		
	1.4038	2.8838	READINGS	INVALID		
	1.3467	2.0895	33.3	93.4	.002296	1.27
	1.3086	1.7257	. 21.1	123.7	.002294	.51
	1.2762	1.1576	47.3	50.3	332294	2.56
55.60	ICABR CV	NG	READINGS			
	.2615	2.7902	57.2	25.7	.00240f	3.93
	• 2477	4.3324	27.3	- 12.1	.002454	, 72
	.2244	1.7015	15.7	- 14.0	.002371	•29
		1.3112	11.5	9.5	.002371	.15
	ICABR CV		READINGS	INVALID		
			24.4	128.7	.002275	• 63
	.5776	2.0839	35.5	53.7	.002199	1.39
	•5580	1.7112	31.5	65.0	.002124	1.06
	•5580	1.2900	32.5	- 3.4	.002124	1.12
	ICABF CV	AC.	READINGS	GIJAVMI		
	3459	2.8195	7.9	-156.0	READINGS	LAVALID
	1.0498	2.0751	10.3	111.8	.002416	-13
	1.0302	1.7210	13.8	66.0	.002444	.43
		1.2078	30.5	3.6	.002444	1.14
	ICABS CV		READINGS	CLIAVKI		
	ICABS CV	ИG				
	1.3288	2.1190	27.0	8.i	.002416	.58
	1.2898	1.7327	13.8	-135.0	- 332444	-14
	1.2683	1.1702	15.4	- 54.5	-222444	.33

Table B-IX. Front-Upper Grid Calculation - Model 36 (Continued)

TIME	×	Y	j	THETA	DENSITY	ą
MICROSEC	INCHES	INCHES				LB/SUFT
138.20	ICABR CV	NG	READINGS	INVALID		
	.3410		13.4		.002704	.47
			21.5		.002373	• 55
			29.9		.302446	1.09
	.2171	1.3029	12.5		.002446	.19
	1CA35 CV		READINGS	CIJAVVI		
	• 5343	2.8319		138.8	.002357	-51
	• 5057	2.0705	27.2		.002278	.84
	. 5981	1.5900	43.7	- 10.3	.002282	2.18
	.5790		23.2		.002282	. 71
	ICABS CV		READINGS			
	1.0419	2.8229	3.3	-1.35.0	.002069	.07
	1.0419	2,3529	14.2	- 74.1	.002223	•22
	1.2438	1.7010	32.1	52.4	.002403	1.23
	1.0362	1.1943	23.8		.332403	•52
	NO READI		READINGS			
	1.4076		READINGS			
	1.3733	2.0933	48.9	- 92.3	.002223	2.56
	1.3010	1.7191	10.0	11.3	•002403	•12
• • • • • •	1.2957	1.1543	22.9		.002403	.63
149.80	ICABA CN		READINGS			
	.2459		113.1	-156.0	•002238	13.57
	.2478		59.4	-154.1	•992249	5.42
		1.6722	27.3	155.2	•002381	.89
	.2146	1.3210	7.9		.002381	•07
	ICASE CV		READINGS			
	• 5205		43.9		.002248	2.59
			33.8		.002456	1.40
	.5010	1.7034	15.3		.932297	-31
	.5737	1.3034	33.2		•002297	1.67
	NO READ!		READINGS			
	1.0400		55.0		READINGS	
	1.0537	2.0524	12.1		.002807	
	1.0478	1.7453	5.0	-151.6	•002365	•34
	1.0088	1.2234	35.0		•002366	1.45
	ICASS CV		READINGS	INVALID		
	ICABS CV					
	1.3268	2.0702	54.6	-143.5	.332807	4.18
	1.2995	1.7346	3 • 5	-116.6	.002366	•09
	1.2605	1.1558	15.3	159,4	.002366	•31

Table B-IX. Front-Upper Grid Calculations - Model 36 (Continued)

TIME	×	Y	J	THETA	DENSITY	Ú
MICROSEC	INCHES	INCHES	FT/SEC	DEGREES	SLU3S/CJFT	TR\2011
191.40	YO READE	vc.	READINGS	THVALID		
1710 10	•2343	2.7500	40.3	-104-0	.002373	1.93
	.2305	2.0229	33.9	-145.3	.002368	1.13
	.2305	1.5557	17.5	-116.6	.002173	.33
	.2152	1.2952	21.9	153.4	.002173	•5?
	ICABS CV		READINGS	INVALID		
	.5886	2.7548	32.5	-126.3	.002285	7.78
	.5829	2.0457	55.9	-126.5	-002311	3.61
	.5829	1,6857	54.0	-148.7	.002313	4.74
	.6095	1.2533	41.5	-135.0	.002313	1.39
	VO READI	NG	READINGS	INVALID		
	1.2114	2.7771	85.5	-173.5	.002300	9.51
	1.0457	2.0514	48.5	-139.3	.002514	2.96
	1.0381	1.5990	51.2	-115.5	.002321	4.34
	1.0057	1.1771	%9.8	-101.3	.002371	2.88
	ICABS CF	NG	READINGS			
	1.3600	2.8586	READINGS			
	1.3295	2.0510	51.9	-109.8	.332514	3.39
	1.2971	1.7105	33.4	-110.6	.002321	1.29
	1.2705	1.1500	15.7	-110.5	.002321	•32
233.00	ICABS CV	V G	READINGS			
	-2361	2.7510	1.9	89.7	.002460	•99
	.2224	2.0234	13.1	- 18.4	.032475	.41
	.2224	1.5555	45.9	- 73.1	.002576	2.91
	-1951	1.3307	33.3	- 75.8	.322676	1.47
	ICABS CV		READINGS		_	
	.5717	2.7549	41.9	-149.9	.002355	2.07
	.5678	2.0254	35.5	-143.7	.002354	1.48
	.5463	1.6702	34.0	-128.2	.002207	1.27
	.5444	1.2741	27.3	-157.9	.002207	.82
	ICABS CV					
	. 3541	2.8039	75.0	172.7	.002168	5.10
	1.0166	2.0312	47.2	-133.4	.002508	2.91
	1.0224	1.6917	23.3	-125.0	.002344	-54
	.9990	1.1746	13.1	- 71.6	.002344	•38
	ICABR CV		READINGS		000140	
	1.2917	2.8741	154.1	-152.4	.002168	29.20
	1.3093	2.0215	55.5	- 95.9	.002508	4.03
•	1.2878	1.7034	27.5	-123.7	.002344	-83
	1.2546	1.1532	24.8	-112.5	.002344	•72

Table B-IX. Front-Upper Grid Calculations - Model 36 (Continued)

TIME	x	Y	j		DENSITY	4
MICROSEC	INCHES	INCHES	FT/SEC	DEGREES	SLUGS/CUFT	L8/SQFf

274.60	ICEES CH			GIJAVNI	000110	22
		2.7519	15.8	- 82.9	.002658	.33
	.2475	2.0171		- 29.5	.002516	3.35
	.2438	1.5229	12.5	- 68.2	.002492	-14
	• 2229	1.2529	59.3	- 72.8	.002492	4.39
	ICABS CV			CIJAVNI		
	. >>24	2.7533	15.8	82.9	.002328	29
	.5543	2.0248	15.7	- 69.4	.002332	- 33
	.5519	1.5590		- 10.3	.002265	•54
	.5829	1.2476		- 36.0	•002266	- 80
	ICAES CV	NG	READINGS	CIJAVVI		
	. 9371	2,7857	37.5	- 9.0	.002431	1.72
	1.0133	2.9171	19.5	18.4	.332572	.44
	1.0248	1.5300	29.9	- 28.3	.00240	1.00
	1.0114	1.1500	13.5	21.8	.002403	.13
	TCASS CV			CILAVALIO		
		2.8190	139.5	-101.3	.002431	14.61
	1.3238	2.0357	29.8	- 23.2	.002572	1.14
	1.2819	1.5376	29.3	36.9	.002403	1.03
	1.2510	1.1371	10.5	21.8	.002403	.13
315.20	ICABS CF			CILAVEL		
720020		2.7454		63.4	.002535	2.73
	.2673	1.9980	33.1	- 80.8	.002564	7.20
	.2253	1.6468	27.8	- 50.2	.002405	1.37
	.2127	1.2741	51.5	- 50.3	.002405	4.55
	TCAES CE			CIJAVEL		
	.5737	2.7805			.332186	3.04
	.5737	2.0098	52.8 53.4	- 58.5	.002326	5.60
	.5578	1.5553	53.9	- 57.8	.002233	4.15
	.5559	1,2535	75.2		.002238	10.36
	NO READ!	-		SINVALID		
	.9412	2.7980	55.1	- 31.8	.002523	5.35
	1.3341	2.0254	45.5		.002561	2.75
	1.0478	1.5780	51.9	- 72.9	.002371	3.19
	1.0098	1.1735	29.1	- 23.2	.002371	1.30
	YD READ1			SINVALID	0000.5.1	
	1.2702	2.7558	23,3	-131.2	.002523	•52
	1.3355	2.0038	42.9	- 57.7	•002561	2.45
	1.3112	1.7210	54.6	- 53.5	.002301	3.53
	1.2644	1,1571	37.9		.002371	1.70
	1 + 4044	1,1311	3167	7047	***************************************	2010

Table B-IX. Front-Upper Grid Calculations - Model 36 (Continued)

TIME	x	Y	j	THETA	DENSITY	G
MICROSEC	INCHES	INCHES			SLUGS/CJFT	
357.80		NG	READINGS	INVALID		
	•2552	2.8038	29.5	- 15.9	.002204	•39
	.2510	1.9352	5.2 43.9	109.4	.002505	. 35
	.2629	1.5000	43.9	- 32.3	.002194	2.12
	و 2533	1.2095	55.7		.002194	3.52
	ICABS CV		READINGS			
		2.7524	47.1			2.52
	•5905	1.9557	15.7	- 69.4	.002393	.33
	•5943	1.5076	39.3	- 95.7	.002443	1.89
	.5438	1.1733	21.5	- 95.2	.002443	.57
	ICABS CV	NG	READINGS	INVALIO		
	. 4924	2.7524	31.3	~ 93.6	.002711	1.33
	1.0381	1.9730	45.5	- 57.8	.002436	2.53
	1.0400	1.5305	45.5 29.9	-101.3	.032445	1.39
	1.3381	1.1486	21.9	- 79.7	.002445	.58
	ICABR CV		READINGS	GIJAVNI		
	1.1905		47.5	-170-5	.002711	3.07
	1.3467	1.9595	45.3	- 62.4	.932436	2.51
	1.3143	1.5438	53.1	- 83.7	-032445	3.45
	1.2895	1.1124	33.8	- 49.1	.002445	1.84
399.40	ICABS CV	NG	READINGS	INVALID		
	-2654	2.7376	32.1	- 92.7	•332527	3.52
	.2654	2.0039 1.6234	25.8 5.7	85.9	•932501	.93
	. 2634		5.7	85.9 - 99.9	.002742	.04
	.2537	1.2351		103.2		1.52
	ICABS CV		READINGS	CIJAVAL		
		2.7493	13.5	- 81.9	.002259	.21
	.5795	1.9941	2.7	135.0	.002271	.01
	•5639	1.6273	12.1	151.5	.002295	.17
	•5639	1.2371	52.6	136.5	•002295	3.18
	ICABS CV	NG	READINGS	INVALID		
	.9893	2.7568	93.2	154.7	.002635	8.48
	1.0517	1.9824	15.4	- 54.5	.332597	•35
	1.3423	1.5488	12.1	- 71.5	-002285	.17
	1.0127	1.1571	25.1	- 81.3	.002285	.72
	ICABS CV	NG	READINGS			
	1.2234	2.7590		-107.4	•002535	1-35
	1.3580	1.9588	33.8		.332597	1.48
	1.3171	1.5583	20.3	- 41.2	.002286	.47
	1.2998	1.1278	11.1	-121.0		.14
					- 	

Table B-IX. Front-Upper Grid Calculations - Model 36 (Continued)

Model 36, Shot 343

TIME	×	Y	J		DEASILA	
MICROSEC	INCHES	INCHES	FT/SEC	DEGREES	SLJGS/CUFT	L4/SUFT
441.00	STCABS CV		READINGS	The Alto		
441.00		2.7219	(1 5	1 WALID	.902375	2.04
	.2529		41.5 47.3 55.0	70.1	.002558	2.36
	2529	1.9519	+/ • 3 54 O	-119.7		3.77
		1.5943	22.0	117.2	.002542	
	.2457	1.2419	3 3.3 READENSS	174.3	•302543	1.95
	YO READIN				002202	1.37
		2.7390	39.5 52.5	1/1.5	- "	
		1.7575	32.3	-135.0	e002.38	3.22
	•5824	1.6114	13.5	-125.4	.002341	.45
	.6057	1.2095	19.3		.002341	.44
	STEADE:		READINGS		000747	7 00
	.3200		31.5			
			15.5			.33
		1,5190	18.5	-108.4	.002415	.42
	1.3419		11.3		.002415	.17
	JCT32 Ch		READINGS			
		2.7733				
			41.2			
			37.5		•002415	
	1.2838	1.1029	37.2	-177.0	.332415	1.57
432,50	AD SEADI.	43	READINGS			
	.2595					
	.2420		13.8	-146.3	" 602541	•25
	.2351	1.5746	23.5	155.0	.032765	• 77
	-2146	1,2390	3.5		.002755	.10
	ICABS CV		READINGS			
	•5598		32.5	-139.8		1.10
		1.4571	17.3	-173.7 171.9	-332248	₅ 34
	•5522	1.5117	13.5	171.9	•332254	.21
	•5502	1.2234	31.3	142.4	•002264	1.11
	ICABS CV		READINGS	INVALIO		
	. 9288	2.9215	43.9	-145.6	READINGS	CIJAVE
	1.3430	1.9707	24.9		.002785	•35
	1.0351	1.5312	10.3	158.2	.002643	.14
	1.3145	1.1454	32.4	151.9	.002544	1.3+
	ICABS CV		READINGS			
	ICA3F CV	VS.				
	1.3229	1.9473	42.2	161.6	.002785	2.43
	1.2878	1.6447	47.8	151.4	.002549	3,03
	1.2527	1.1259	27.8	154.1	.002549	1.02

Table B-IX. Front-Upper Grid Calculations - Model 36 (Continued)

TIME	x	Y	j	THETA	DENSITY	Ŋ
41CROSEC	INCHES	INCHES	FT/SEC	DEGREES	SLUGS/CJF1	LB/SUFT
524.20	ICABS CF		READINGS	INVALID		
	ICABS CV	NG				
	.2514	1.9543	32.2	-104.0	.332505	1.35
	.2400	1.5000	27.8	156.8	.002553	1.18
	.2419	1.2495	23.9		.002553	•75
	ICABS CF		READINGS			
	.5810	2.7181	34.8	-128.2	•332524	1.53
	.5714	1.9557	10.9	78.7	.002379	•12
	•5695	1.5133	9.1	-166.0	.002410	•09
	.5310	1.2286	37.3	174.0	.032410	1.58
	ICABS CV	NG	READINGS			
	.9838	2.7519	75.2	-119.2	.002735	12.56
	1.0229	1.9538	24.9	-135.0	.002552	•82
	1.0343	1.5229	15.8		•332556	• 36
	1.0133	1.1390	23.4	-163.3	•002556	•53
	ICABR CM	NG	READINGS	GIJAVKI		
	1.1048	2.7314	READINGS			
	1.3295	1.9581	25.2	26.6	.002552	• 31
	1.2876	1.6533	13.5	- 18.4	.002555	.44
	1.2571	1.1105	41.5	- 45.0	.002556	2.20
555.80	ICABR CM	NG	READINGS			
	.2341	2.7044	READINGS	INVALID		
	.2341	1.9317	43.5	- 28.8	.002543	2.51
	-2088	1.5853	53.0	- 30.3	•002589	3.78
	.1951	1.2254	74.1	- 55.5	.002689	7.36
	ICABS CV	NG	READINGS	CIJAVVI		
	•5483	2.7278	53.2	-151.1	.002365	4.72
	.5444	19558	43.2	-123.7	.002273	2.63
	.5444	1.5098	34.6	- 83.7	.002253	1.34
	.5132	1.2273	51.1	- 90.0	•002253	4.20
	ICABS CV	NG	READINGS			
	-9820	2.7376	93.1	-103.5	READINGS	INVALID
	1.0224	1.9532	41.2	- 76.6	.332427	2.05
	1.0263	1.5176	37.5	-104.7	.002254	1.58
	. 9951	1.1395	43.5	- 74.7	•332254	2.13
	ICABS CV		READINGS	CIJAVE		
	ICABS CK					
	1.3463	1.9590	42.4	- 82.2	.332427	2-18
	1.3054	1.5370	23.2	- 80.5	002254	-61
	1.2820	1.0956	43.0	- 77.2	.002254	2.09

Table B-IX. Front-Upper Grid Calculations - Model 36 (Continued)

TIME	X.	Y	3		DEVISITY	u
MICROSEC	INCHES	INCHES	FT/SEC	DEGREES	SLUGS/CJFT	LR\2041
507.40	CICABS CV		READINGS	CIJAVEL		
	•2895		33.3	93.4	.003115	1.73
	.2857	1.5733	15.8	32.7	2002801	.35
	.2839	1.1886	15.1	156.0	.002801	.35
	VO READ'Y	1G	READINGS			• 7.5
	.5257	2.5375	READINGS			
	.5448	1.9257	47.5	9.1	.002353	2.83
	.5733		23.5	. U	.002332	.64
	.5810		53.3		•002332	
	NO READIA		READINGS			
		2.5557	READINGS			
	1.0324		41.2	58.5	.002712	2.30
	1.3248	1.5857	21.3	79.7	.002441	•58
	1.0248	1.0971	15.8	54.5	.002441	.34
	TICABE CE	NG	READINGS		••••	
		2.5057				
	1.3352	1.9152	35.2	93.2	.002712	1.58
	1.2914	1.5305	15.6	90.0	.002441	• 30
	1.2557	1.0555	25.3	132.0		.34
544.00	VICABS CV	AC .	READINGS	INVALID		
	.1951	2.7102	READINGS	CIJAVI		
	.2322	1.7544		-178.2	.002290	4.21
	.2107	1.5020	47.7	153.7	.002293	2.51
	•1745	1.2293	35.8	145.7	•332298	3.45
	ICAER CV		READINGS	INVALID		
	NO READIA		READINGS	INVALID		
		1.9746	42.0	2.5	.002324	2.05
	.5578	1.5098	7.7	14.0	•002377	16.
	•5659	1.2195	51.2	116.5	.002377	3.12
	NO READIF	NG	READINGS	INVALID		
	CASS CV					
	1.0439	1.9883	35.0	58.0	•332421	1.57
	1.3332	1.5390	11.1	39.0	.002375	.15
	1.0049	1.1532		125.5	.002376	1.28
	ACT SEVOIN		25V1CFEE	LANALID		
	VICABE CA					
			57.1	90.0	.002421	4.23
	1.3054			111.8		.50
	1.2544	1.1151	35.1	135.0	.002376	1.45

Table B-IX. Front-Upper Grid Calculations - Model 36 (Continued)

TIME	x	Y	j	THETA	DENSITY	Ç
MICROSEC	INCHES	INCHES	FT/SEC		SLUSS/CUFT	
590.60	ICASS CV		REPOINGS	INVALID		
	ICABS CV	NG	RE4) I NG S 13 • I	INVALID		
	.2286	1,9314	13.i	- 63.4	.002473	.21
	.2400	1.5867	19.4	32.0	• 332532	.45
		1.2352	24.7	18.4	.002532	.80
	ICABR CM	NG	READINGS	CIJAVKI		
	ICABS CK	NG		CIJAVZI		
	•5867	1.9276	37.6	-147.1	.032350	1.84
	<u> 5810</u>	1.5810	31.3	176.4 126.0	.002483	1.22
	•5581	1.2133			.032483	-88
	ICABS CV	NG	READINGS	CIJAVKI		
	•9162	2.5952	SEA DE ACE	CIJAVNI		
	1.0514	1.9543	3E4 DI NGS 23.5	- 85.2	.002544	.73
	1.0305	1.5952				• 25
		1.1238	5.2 10.0 READINGS	- 78.7	.002599	.13
	ICABS CK	NG				
	1.3352	2.5200	READINGS			
	1.3352	1.9752 1.6495	34.5 19.5	-137.3	.902644	1.58
	1.2838	1.6495	19.5	180.0	.002599	•50
		1.0933	34.8	-141.8	.002599	1.57
732.20	ICABS CK	NG	READINGS			
	ICABR CK	NG	READINGS	INVALID		
	.2380	1.9532	41.8			2.42
	•2263	1.6117	13.9	-105.9	.332560	•26
	-2029	1.2371	35•l	45.0	.032660	1.64
	ICABE CK	NG NG	READINGS	CIJAVKI		
	ICABS CK	٧G	READINGS			
	•5600	1.9532	19.5	-150.9	.002340	.45
	•5366	1.5117	17.3	173.7	•00229?	•34
	•5>02	1.2410	5.0	~108.4	•002292	-04
	ICABS CV	NG	5.0 READINGS	INVALID		
	TCABS CK	46				
	1.0459	1.9549	19.5	- 78.7	.002806	•53
	1.0244	1.5410	10.8	45.0	.002497	•15
	1.0053	1.1434	11.5	99.5	.332497	.17
	ICAER CH	NG	READINGS	INVALID		
	NO READI					
	1.3190	1.9707	23.3	- 35.0	.002806	•76
		1.6546	43.0		JJ2497	2.31
	1.2371	1.0946	25.6	21.0	.002497	.88

Table B-IX. Front-Upper Grid Calculations - Model 36 (Continued)

TIME MICROSEC	X INDHES	Y 1 NC HES	J FT/SEC		DENSITY SLUGSCUFT	Q LB/SUFT
773.8C	NO READIN .2457 .2352 .2352 .2352 NO READIN .5543 .55538 .5552 NO READIN 1.0552 1.0552 1.0381 1.0388 NO READIN 1.4286 1.3543 1.3257 1.2657 NO READIN NO READIN NO READIN	1.8933 1.5733 1.5733 1.2510 1G 2.6171 1.9181 1.5829 1.2076 16 2.4548 1.9352 1.6038 1.1352 NG 2.4495 1.1352 NG 1.5400 1.1029 NG	READINGS	GIJAVITI GIJ	2FJ32\C7F1	E8/2:41
	TO ASE OF TO ASE	16 16 16 16 16 16 16 16 16 16 16	READINGS READINGS READINGS READINGS	DIJAVEL		

Table B-IX. Front-Upper Grid Calculations -Model 36 (Continued)

TIME	X	Y	, i	THETA		9
MICROSEC	INCHES	I NO HES	FT/SEC	DEGREES	SEUSS/CUFT	LB/SQFT
857.00	ICABS CV	vc.	READINGS	INVALIN		
031300	•2305	2.6343	4517022 SEVICES			
	.2419	1.8990	READINGS			
	.2419	1.5771	READINGS			
	.2419	1.2114	READINGS			
	NO READI		READINGS			
	.5333	2.5310	READINGS			
	.5257	1.9238	READINGS			
	.5295	1.5638	READINGS			
	.5295	1.1771	READINGS			
	NO READI	NG	READINGS			
	.9543	2.5981	READINGS			
	1.3629	1.9333	READINGS			
	1.3248	1.5095	READINGS	INVALID		
	.9924	1.1314	READINGS	INVALID		
	ICABS CK	VG	READINGS			
	ICABS CV	V G	READINGS	INVALID		
	1.3448	1.9576	READINGS	INVALID		
	1.2838	1.5476	READINGS	DIJAVI		
	1.2381	1.0952	READINGS			
898.60	ICABS CV		READINGS	CIJAVNI		
	ICABS CV	-				
	.2576	1.8927	32.5	- 69.4	.002851	1.52
	.2595	1.5529	43.5	- 78.7	.092574	3.05
	.2127	1.2156	43.9	-124.4	•002574	2.48
	I CABR CV		READINGS			
	.5463	2.5578	73.9	- 32.2	READINGS	INVALID
	.5815	1.9122	55.1	- 31.8	.002415	5.12
	.5698	1.5805	41.8	- 55.8	.002268	1.99
	•5639	1.1549	19.5		•002268	.44
	IICABS CV		READINGS	CIJAVNI		
	ICASS CV	-	•- •			
	1.0573	1.9493	27.8	- 74.1	.002545	•98
	1.0244	1.5117	50.4	- 65.4	.002270	2.88
	1.0185	1.1151	25.1	- 81.3	•002270	.71
	ICABS CV		READINGS			
	1.3463		READINGS 42.7		00000	
	1.3112	1.9551		- 63.4	.002545	2.32
	1.2859	1.6254 1.0349	43.6	- 48.8	.002270	1.87
	1.4033	1.0347	32.0	- 72.5	•002270	1.16

Table B-IX. Front-Upper Grid Calculations - Model 36 (Continued)

		¥	1	THETA	DENSTIY	
TIME	χ,	1 2 = 4 = 0 .	£1/5E0	DECKEES	SEU35/CUFT	LS/SOFT
MICROSEC	IACH=2	INCHES				
143.20	11 CA35 CV	46	READINGS	INVALID		
,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	.2533	2.5200	READINSS	INVALID	.002734	. 38
	.2533	1.3586	15.5	- 45.0	.032734	1.4.2
	.2514	1.5295	53.2	-115.1	•174461	2.24
	.2171	1.1752	39.1	- 92.5	.002927	2.64
	ICAER CV	46	REABINGS	CLIAVEL		
	6030	2.5+90	READINGS		00217/	1 30
	-5810	1-8935	34.5	- 73.5	.202174	3.00
	5451	1.5257	49-7	- 45.0	.002427	2 6 3
	5447	1.1476	45.5	- 9.9	.002427	2.53
	NO READI	MC:	READINGS	INVALID		
	3352	2.5043	RENDINGS	CIJAVALIO		
	4 7 3 7 C	1.9057	33.5	- 59.5	.002560	1.98
	1.3133	1.5538	45.8	- 39.8	*0:147C7	2.53
	1.1431	1.1057	13.5	- 58.2	.33250+	-14
	• 7726 • 7726		READINGS	CILAVEL		
	NO READI		ノニヘウミソら !	SINVALID		
	42 KE43	1 VG	?3.6 14.2 23.5 354DING	24.4	.002560	
	1.3533	1. 7295	14.2	15.9	.332509	.25
	1.3105	1.5171	23.5	- 74.8	*30526A	.69
	1.2475	1.7548	224.01.42	STAVALID		
331.80	CA35 CV		7,40140	5		
	V3 READ	ING	12.3	-105.9	.032570	.25
	. 2693	1.8810	13.7	- 97.1	.002363	1.09
	.2439	1.5337	27.2	- 89.7	.002303	.00
	.2137	1.1755	\$ • ''	S THEALID	•0,2,0.	
	CABS CF		イニオンドイク	2 1 164613		
	CASS CV	I VG	. 7 7	29 6	.00238/	2.73
	.5912	1.8730	+1+3	- 20.0	.002>03	4.57
	.5347	1.0 ララブサ				3.45
	.5038	707717				, ,
	45 CF	I NG	4 E # D I M 3	S MARIE		
	43 READ	ING		19 1	.032566	, 37
	1.0869	1.9151	27.3		.002373	.3=
	1.3535	1.5824	17.3	- 5.3		
	1.0724	1.1053	. 31.9	- 32.7		1.73
	NO READ			S INVALID		
	NO REA		READING	S INVALID		10
	1.3578	1.9549	3.5	- 53.4	.002566	.10
	1.3249	1.5293	13.3	- 58.2	.332373	.13
	1.2839	1,0515	5.0	- 71.6	.002373	.04
	106037	.,,				

Table B-IX. Front-Upper Grid Calculations - Model 36 (Continued)

TIME	X	Y	j	THETA	DENSITY	Q
MICROSEC	INCHES	INCHES	F1/SEC	DEGREES	SLU3S/CUF1	LB/SQFT
		•				
1023.40	ICABS CV		READINGS			
	.2476	2.5314	READINGS		002224	
	.2495	1.8552	19.5	-143.1	.002334	.45
	.2476	1.4990	13.4	- 58.0	•002524	.43
	.2171	1.1733	24.5	- 28.6	.032524	.75
	ICABS CV		READINGS			
	•5095	2.5143			22222	24
	,5229	1.8557	15.8	-125.5	.002398	.34
	-5076	5238	23.8	-170.5	.002517	.71
	.5962	1.1505	43.3	-156.0	.002517	2.94
	ICABR CK		READINGS			
	.9371	2.5619	READINGS		000055	4.0
	1.0971	1.9010	15.8	- 54.5	•002855	.40
	1.0629	1.5519	15.8	-125,5	.002681	.38
	1.0229	1.0895	7.0	33.7	.002581	•07
	VO READI		READINGS			
	ICABS CF		READINGS			
	1.3676	1.9219	43.2	- 50.9	.002855	2.31
	1.3143	1.6076	39.5	- 66.0	.202581	1.99
	1.2495	1.0590	3.1	-166.0	.002581	•0+
1055.00	ICABS CV		READINGS			
	.2537	2.5054	93.2	-114.1	.002868	13.83
	.2537	1.8593	11.4	180.0	.002700	.18
	.2537	1.5180	18.8	156.0	.002647	.47
	.2322	1.1549	21.1	- 95.2	.002547	.53
	ICABS CF		READINGS			
	.5049	2.4995	37.7	-144.8	.002548	2.31
	.5815	1.8554	22.3	-160.0	.00?348	•53
	.5815	1.5415	15.3	110.5	.332353	.31
	.5620	1.1454	31.1	- 79.4	.002353	1.13
	CABS CK	ING	READINGS			
	.9795	2.5659	57.3	7.9	.002318	5.57
	1.0966	1.9324	35.5	-141.3	.002491	1.57
	1.0498	1.5588	25.6	-153.4	.002429	.90
	1.0283	1.1152	35.2	161.5	.002429	1.59
	CASS CK		READINGS			
	1.4302	2.5520	READINGS			
	1.3873	1.9298	21.5	135.0	.002491	•58
	1.3495	1.5941	27.1	-140.7	.032429	.89
	1.2761	1.0595	17.3	96.0	.332429	• 36

Table B-IX. Front-Upper Grid Calculations - Model 36 (Continued)

TTWL	¥	٧	1	THETA	DENSITY	9
TIME MIGROSEC	11745	14174=5	FT/SEC	DEGREES	SLUGS/CUFf	Lo/SQFT
412/03/20	1 13 1.3	. 13 .20				
1105.60	VO 334011	NG.	READINGS	INVALIO		
1137000	.2076	2.4419	42.0	-152.2	.002758	2.43
	.2311	1.8552	14.7	-156.8	• 222432	•27
	. 2335	1.5057	24.2	155.0	.332224	• 55
	.2152	1.1524	55.3	107.4	.002224	4.77
		NG	READINGS	INVALID		
	.5771	2.4914	37.6	135.0	002481	
	.6019	1.35+0	25.4	3 0.0	.732583	-83
	4019	1.5390	27.5	135.0	.002623	1.00
	.5019	1.1230	44.3	70.0	.002623	2.55
	ICAES CV	45	44.9 READINGS	INVALID		
	1,3057	2.5714	33.2	- 28.1	ステオロエビラ2	LANALID
	1-1585	1.3731	34.5	137.3	.002707	1.52
	3 3/33	n 5 7 h	24.5	118.6	.002549	.79
	. 7896	1.1010	35.0	167.5	•002549	1.72
	ICESS CV	NG	READINGS	CIJAVNI		
	ICABS CF	NG	35.0 35.0 35.0 35.0 31.0	INVALID		
						3.52
	1.2933	1.5905	55.1	122.7	.332547	5.61
1148.20	1.2475	1.0752	48.5	139. 7	.002549	3.12
1148.20	ICABS CF	NG	READINGS	CIJAVVI		
	.2156	2.4859	55.9	3.3	- 002784	5.23
	.2400	1.9534	35•7	- 27.9	.332564	1.79
	.2302	1.5234	33.2	- 2.9	•902869	5.33
	.2127	1.2273	47.7	• 0	.002869	3 • 26
	ICABE CK	NS.	SEVICAES	CIJAVVI		
	.5834	2.5210	55.0	- 3.4	.732574	5.43
	.5815	1.8907	45.1	-114.4	.002364	2.51
	.3620	1.5510	39.2	-143.1	.002452	1.75
	.4520	1.1302	15.7	156.0	.002452	-30
	10 READI	NS	READINGS	CINVALID		• • • •
	1.0083	2.5532	13.0	-122.0	PEADINGS	INVALID
		1.9259	15.3	- 0	.002577	2.24
	1.0380		42.7	19.1	.332484	
	. 4432	1.1180	5.3	- 33.7	.002484	.36
	CABS CV			GI. AVVI		
	73 KF43			N. MLID	000477	3.
	1.3500	1.9727	13.9	- 74.1	.002577	• 26
	1.3054	1.5438	34.0	38.2	.332484	1.43
	1.2390	1.0907	4.3	153.4	.002484	\$0.

Table B-IX. Front-Upper Grid Calculations - Model 36 (Continued)

TIME	X	Y	j	THETA	DENSITY	0
MICROSEC	INCHES	INCHES	FT/SEC	DEGREES		LB/SQFT
1189.80	NO READI	NG	READINGS	INVALID		
	.2743	2.4457	54.7	• 0	.002851	4.27
	.2705	1.8331	3.1		.333361	.10
	.2685	1.5048	13.2		.002794	•52
	.2629	1.1524		-120.5	.002794	2.08
	ICABS CV		SENDINGS			
	.5419	2.4976	34.2	- 59.0		1.50
	•5829	1.8171	13.4			.45
	.5714	1.5162	. 37.9			1.73
	.5867	1.1238	33.3		•302402	1.33
	ICABS CV		READINGS			
	. 9952	2.5562	READINGS	INVALID		
	1.0838	1.8731	19.9	- 11.3	.032980	.59
	1.3475	1.5924	27.6	- 8.1	.002430	• 93
	.9943	1.0971	35.4	6.3	.102430	1.52
	NO READI	NG	READINGS	INVALID		
	ICABS CV	NG	READINGS	CILAVEL		
	1.3562	1.9238	37.1	- 18.4	.002980	2.05
	1.3200	1.5114	22.8	- 31.0	.002430	•53
	1.2438		37.9		.072430	1.75
1231.40	ICASS CV		READINGS	INVALID		
	.2712	2.4859	32.5	176.5	.032961	1.56
	.2478	1.8554	58.9	104.4	.002459	5.84
	.2127	1.5151	23.6	126.9	.002807	1.15
	.1932	1.1941	55.6	112.2	.002807	4.34
	ICABS CV	NG	READINGS			
	.5010	2.4917	15.4	50.3	READINGS 1	NVALID
	.5971	1.8810	77.7	62.2	.002194	6.51
	.5541	1.5239	53.7	70.2	.002290	2.94
	.5366	1.1588	53.5	92.0	.002290	3.27
	ICABE CK	NG	READINGS	CIJAVAL		
	ICA35 CV	NG	READINGS	CIJAVVI		
	1.3907	1.9220	58.8	86.8	.002534	5.23
	1.3654	1.5853	15.7	134.3	.002529	.31
	1.0283	1.1220	34.3	90.U	.002529	1.49
	ICABS CK		READINGS			
	ICABE CV		READINGS			
	1.3951	1.9510	55.9	76.4	.002534	4.27
	1.3249	1.6371	38.9	101.3	.002529	1.91
	1.2751	1.0829	27.0	61.9	.002529	• 92
	· 	-				_

Table 3-1X. Front-Upper Grid Calculations - Model 36 (Continued)

TIME	*	Y	j	14617	DENSITY	2
MICHOSEC	INCHES	ZEHCVI	FT/SEC	DEGREES	\$EJ3\$/CUFT	
				we once 5	3C3337C0F1	£ 23 7:3E1
1273.00	ICARS CV	46	READINGS	INVALIO		
	.2417	2.4476	14.1	-123.7	.002764	•27
	• 2533	1.9048	23.4	- 67.4	.002435	1.36
	.2514	1.5276	44.1	12.8	.032599	7.52
	.2413	1.2038	50.5	19.0	•332599	4.85
	NJ 35401			CIJAVEL	• 3 37 3 7 3	4.00
	. 5475	2.5010	53.3	23.5	RE401435	Luwalto
	.5190	1.8527	31.5	- 29.7	.002507	1.24
		1.5538		34.5	•332507	1.51
		1.1771	35.5	15.5	.002519	1.58
	ICARE CV	₩ G		GIJAVEL	•002319	1.56
	ICABS CV	AC.	RE401VGS	INVALID		
	1.3876	1.9457	25.4	- 70.0	• 222554	•86
		1.5076	15.5	45.0	.002456	• 34
		1.1314	15.5	~132~0	.002456	. 34
	ICABS CV	V:3	RENDINGS	INVALID	•002430	() 4
	ICABE CN	NG	READINGS	CILLAVEL		
		1.9790	15.1	104.0	.002554	•34
	1.3124	1.5495		42.7	.002455	1.47
	1.2475		57.5	17.8	.002455	4.06
1314.60	ICPER CV	NG	READINGS	INVALID	1002773	4.75
		2.4741	107.2	- 27.0	.002509	14.96
	•2595	1.3341	3).2	- 51.6	.0.12752	3.95
	2555	1.5259	7.5	~ 53.1	.002944	•13
	.2498	1.2137		14.0	.002944	• 35
	ICABS CV		READINGS			• , ,
		2.5170	29.1	-121.6	READINGS I	MWALTO
	• 5244	1.8554	33.2	-143.1	•002570	1.87
	•5354		35.2	-139.4	.002345	1.45
	.5717	1.1735	45.4	-170,5	.002345	2.53
	ICAES CV		ZEADINGS	INVALID		2473
	ICV3> CN		SEVICKES	INVALID		
	1.0907		35.2	- 49.4	.002775	1.72
	1.3771	1.5930	23.5	14.0	.002134	.57
	1.0155	1-1102	17.6	- 29.1	-002134	-41
	ICABS CV		2EVIGEES	CIJAVNI		
	TCABS CV		READINGS	GIJAVVI		
	1.3712	1.9756	11.1	-149.0	.002775	•17
	1.3502	1.5505	9.5	99.9	.002134	•10
	1.3307	1.1005	17.5	-132.5	.072134	.33

Table B-IX. Front-Upper Grid Calculations - Model 36 (Continued)

				T 15 5 A	YTIZVEC	ą
TIME	×	Y	J	THETA	SLUGS/CJFT	
MICROSEC	INCHES	INCHES	FT/SEC	DEGREES	2503216911	[5/ 34]
1355.20	NO READI	NG	READINGS			
1,,,,,,,,	.3390	2.3481	50.7	- 74.4	.003599	4.53
	.2914	1.8343	15.8	- 97.1	.003145	.39
	.2571	1.5200	40.3	-112.8	.003247	2.53
	.2571	1.2076	22.1	-135.0	.003247	.79
	ICABS CV		READINGS	INVALID		
	.5343	2.4752	55.1	-109.0	READINGS	
		1.8529	13.8	- 8.1	.002376	.23
	.5619	1.5410	23.8	9.5	.002235	
	.5390	1.1595	23.5	- 65.6	.002235	• 52
•	VO READI		READINGS	CLIAVVI		
	NO READI		READINGS	INVALID		
		1.9200	5.2	- 71.6	.003206	• 96
	1.3667	1.6133	33.3			1.19
	1.7114	1.1219	19.3	-135.0	.002574	.48
	NO READI		READINGS	CIJAVNI		
	VO READI	46	READINGS	CIJAVAL		
	1.3600	1.9733	11.9	170.5	.003206	•23
	1.3124	1,5590	14.2	-105.9	.332574	.25
	1.2438	1.0876	23.8		.002574	•56
1397.80	I CABS CF		READINGS	CIJAVEI		
1371800	.2771	2.4254	35.9	177.5	.332771	
	-2576	1.8185	47.5	177.8	.002503	3.08
		1.4888	25.9	-144.0	.002669	
		1.1980	41.0		.002569	2.24
	NO READI		READINGS	CIJAVI		
		2.4556	43.0	- 83.2	READINGS	
	-5380	1.8534	41.2	- 13.4	.002777	
		1.5493	33.3	- 13.2	.002462	
	.5815	1.1571	21.3	- 10.3	.002462	•55
	NO READ!	ING	READINGS	CIJAVEL		
	NO READ		READINGS	INVALID		
	1.0927	1.8907	19.2	5.7		
	1.0478	1.5902	40.5	- 98.1	.002038	1.67
	1.0029	1.0956	17.5	-130.5	.002038	.32
	CABR CP			CIJAVVI		
	CASS CV		READINGS	CLIAVVI		
	1.3795	1.9785	45.9	26.6	.002567	2.94
	1.3463	1.5458	35.7	- 99.0	.002038	1.37
	1.3151	1.3858	14.5	-113.2	£65C0°	•55
		-				

Table B-IX. Front-Upper Grid Calculations - Model 36 (Continued)

MICROSEC INCHES INCHES FT/SEC DEGREES SLJSS/CJFF L3/SQ 1439.40 NO READING READINGS INVALID .2533						· · ·	
1439.40 10 READING 16393 2.4019 18362 53.3 - 98.4 .002477 5.52 12362 1.5049 24.7 -108.4 .002736 884 12210 1.1896 55.3 -110.3 .002736 4.33 ND READING 1.5400 2.4286 55.3 -110.3 .002377 1.66 1.5285 1.8533 57.3 - 98.1 READINGS INVALID 1.5400 2.4286 55.3 - 137.1 .002377 1.66 1.5285 1.8533 57.3 - 137.1 .002377 1.66 1.5500 1.1557 34.1 -156.8 .002486 1.45 ND READING ND READING 1.1295 1.9219 43.3 14.0 .002486 1.45 ND READING 1.1295 1.9219 43.3 14.0 .002710 3.17 1.0010 1.5733 40.3 - 14.0 .002571 2.17 1.0010 1.5733 40.3 - 14.0 .002571 2.17 1.0010 1.5733 40.3 - 14.0 .002571 2.17 1.0010 1.5733 40.3 - 14.0 .002571 3.17 1.0010 1.5733 40.3 - 14.0 .002571 2.17 1.0010 1.5733 40.3 - 14.0 .002571 2.17 1.0010 1.5630 15.1 -166.0 .002571 .35 ND READING READINGS INVALID ND READING 1.4019 1.9943 34.5 16.4 .002710 1.63 1.3067 1.6229 27.2 -149.7 .002671 .98 1.2381 1.0743 59.5 -156.8 .002671 4.73 1491.00 ND REA ING READINGS INVALID ND REA NG 2498 1.7559 90.5 - 42.4 .002593 11.02 2498 1.7559 70.5 - 42.4 .002693 11.02 2498 1.7559 70.5 - 56.3 .002849 10.87 1491.00 ND REA ING READINGS INVALID 1.5361 2.4020 77.2 - 81.5 READINGS INVALID 1.5107 1.8330 53.3 - 86.8 .002264 5.28 1.5483 1.1493 71.7 - 51.4 .002364 5.08 ND READING READINGS INVALID 1.5375 1.9024 47.5 - 74.4 .002944 3.51	TIME	×	Y	J	THETA	DEASTIA	Ų.
.2533	MICROSEC	ENCHES	INCHES	F*/SEC	DEGREES	SLU3S/CUFT	F3/20E1
.2533	1449.40	ICABS CV	NG	READINGS	CIJAVE		
. 2419 1.8352 53.3 - 98.4 .002472 3.52 .2352 1.5048 24.7 -108.4 .002735 .84 .2210 1.1886 55.3 -110.3 .002736 4.33 NO READING READINGS INVALID .5400 2.4286 55.3 - 98.1 READINGS INVALID .5400 2.4286 55.3 - 98.1 READINGS INVALID .5401 1.5333 53.7 - 123.1 .002377 1.66 .5943 1.5333 53.7 - 123.1 .002486 3.58 .5500 1.1557 34.1 -166.8 .002486 1.45 NO READING READINGS INVALID NO READING READINGS INVALID 1.1295 1.9219 43.3 14.0 .002710 3.17 1.0000 1.1086 15.1 -166.0 .002571 2.17 1.0000 1.1086 READINGS INVALID NO READING READINGS INVALID 1.4019 1.9943 34.5 1.404.10 NO READING READINGS INVALID 1.4019 1.9943 34.5 16.4 .002710 1.63 1.3067 1.6229 27.2 -149.7 .002671 .98 1.2331 1.0743 59.5 -156.8 .002571 4.73 1491.00 NO REA NG .2498 1.7659 90.5 - 42.4 .002593 11.02 .2322 1.4554 75.7 - 56.3 .002349 3.15 .2146 1.1454 37.4 - 58.4 .002849 10.87 NO READING .5341 2.4020 77.2 - 81.5 READINGS INVALID .5107 1.83890 53.3 - 85.8 .002264 5.36 .5795 1.5044 55.8 - 91.5 .002364 5.28 .5483 1.1493 71.7 - 51.4 .002364 5.28 .5483 1.1493 71.7 - 51.4 .002364 5.28 .5480 1.493 71.7 - 51.4 .002364 5.28 .5480 1.493 71.7 - 51.4 .002364 5.08	, , , , , , ,	.2533	2.4319				
2352 1.5048 24.7 -108.4 .002735 .84 .2210 1.1886 55.3 -110.3 .002736 4.33 NO READING READINGS INVALID .5400 2.4286 55.3 - 98.1 READINGS INVALID .5285 1.8533 37.3 -137.1 .002377 1.66 .5943 1.5333 53.7 -123.1 .002485 3.58 .5500 1.1557 34.1 -166.8 .002486 1.45 NO READING READINGS INVALID NO READING READINGS INVALID 1.1295 1.9219 43.3 14.0 .002710 3.17 1.0510 1.5733 40.3 - 14.0 .002571 2.17 1.0510 1.5733 40.3 - 14.0 .002571 2.17 1.0500 1.1086 15.1 -166.0 .002571 2.17 1.0500 1.1086 READINGS INVALID NO READING READINGS INVALID NO READING READINGS INVALID 1.4019 1.9943 34.5 16.4 .002710 1.63 1.3367 1.6229 27.2 -149.7 .002671 4.73 1491.00 NO REA ING READINGS INVALID NO READING READINGS INVALID NO READING READINGS INVALID NO READING READINGS INVALID .2322 1.4554 75.7 - 56.3 .002849 10.87 NO READING READINGS INVALID .5341 2.4020 77.2 - 81.5 READINGS INVALID .5077 1.8380 53.3 - 85.8 .002264 5.36 .5795 1.5044 55.8 - 91.5 .002364 5.28 .5483 1.1493 71.7 - 51.4 .002364 5.08 NO READING READINGS INVALID NO READI						.002472	3.52
.7210 1-1886 55.3 -110.3 .002736 4.33 ND READING READINGS INVALID .5400 2.4286 55.3 - 98.1 READINGS INVALID .5286 1.8533 37.3 -137.1 .002377 1.66 .5943 1.5333 53.7 -123.1 .002486 3.58 .5500 1.1557 34.1 -166.8 .002486 1.45 ND READING READINGS INVALID 1.1295 1.9219 43.3 14.0 .002710 3.17 1.0510 1.5733 40.3 - 14.0 .002571 2.17 1.0510 1.5733 40.3 - 14.0 .002571 2.17 1.0500 1.1086 15.1 -166.0 .002671 3.5 ND READING READINGS INVALID ND READING READINGS INVALID 1.4019 1.9943 34.5 16.4 .002710 1.63 1.3067 1.6229 27.2 -149.7 .002671 4.73 1491.00 ND REA ING READINGS INVALID ND READING READINGS INVALID ND REAL NG READINGS INVALID 1.2381 1.0743 59.5 -156.8 .002571 4.73 1491.00 ND REAL NG READINGS INVALID ND REAL NG READINGS INVALID 1.2498 1.7559 90.5 - 42.4 .002593 11.02 2.2498 1.7559 70.5 - 42.4 .002649 10.87 ND READING READINGS INVALID 1.5341 2.4020 77.2 - 91.5 READINGS INVALID 1.5341 2.4020 77.2 - 91.5 READINGS INVALID 1.5071 1.8330 53.3 - 86.8 .002849 10.87 ND READING READINGS INVALID 1.5107 1.8330 53.3 - 86.8 .002264 5.36 1.5795 1.5044 55.8 - 91.5 .002364 5.23 1.5483 1.1493 71.7 - 51.4 .002364 5.03 ND READING READINGS INVALID READINGS INVALID		2352	1.5048	24.7	-138.4	.002735	
NO READING							
1.5400 2.4286 55.3 - 98.1 READINGS INVALID 1.5285 1.8533 37.3 -137.1 .002377 1.66 1.5943 1.5333 53.7 -123.1 .002486 3.58 1.5500 1.1557 34.1 -166.8 .002486 1.45 1.000 READING READINGS INVALID 1.1295 1.9219 43.3 14.0 .002710 3.17 1.0510 1.5733 40.3 - 14.0 .002571 2.17 1.0510 1.5733 40.3 - 14.0 .002571 2.17 1.0510 1.5733 40.3 - 14.0 .002571 2.17 1.0510 1.5733 40.3 - 14.0 .002571 2.17 1.0510 1.5733 40.3 - 14.0 .002571 2.17 1.0510 1.5733 40.3 - 14.0 .002571 2.17 1.0510 1.5733 40.3 - 14.0 .00257135 1.000 NO READING READINGS INVALID 1.4019 1.9943 34.5 16.4 .002710 1.63 1.3067 1.6229 27.2 -149.7 .002671 .98 1.2331 1.0743 59.5 - 155.8 .002671 4.73 1491.00 NO REA ING READINGS INVALID 1.2381 1.0743 59.5 - 156.8 .002671 4.73 1491.00 NO REA ING READINGS INVALID 1.2498 1.7559 90.5 - 42.4 .002693 11.02 2.2498 1.7559 90.5 - 42.4 .002693 11.02 2.2322 1.4554 75.7 - 56.3 .002849 10.87 NO READING READINGS INVALID 1.5341 2.4020 77.2 - 91.5 READILOS INVALID 1.5341 2.4020 77.2 - 91.5 READILOS INVALID 1.5401 READING READINGS INVALID 1.5401 READING READINGS INVALID 1.5401 READING READINGS INVALID 1.5401 READING READINGS INVALID 1.335 1.9024 49.5 - 74.4 .002944 3.51				READINGS	CLIAVAL		
.5285 1.8533 37.3 -137.1 .002377 1.666 .5943 1.5333 53.7 -123.1 .002486 3.58 .5500 1.1557 34.1 -166.9 .002486 1.45 N) READING READINGS INVALID NO READING READINGS INVALID 1.1295 1.9219 43.3 14.0 .002571 2.17 1.0510 1.5733 40.3 -14.0 .002571 2.17 1.0500 1.1086 15.1 -166.0 .002671 .35 NO READING READINGS INVALID NO READING READINGS INVALID 1.4019 1.9943 34.5 16.4 .002710 1.63 1.3067 1.6229 27.2 -149.7 .002671 98 1.2381 1.9743 59.5 -155.8 .002671 4.73 1491.00 NO REA ING NO REAL NG 2498 1.7559 90.5 -42.4 .002693 11.02 2322 1.4554 75.7 -56.3 .002849 10.87 NO READING READINGS INVALID 1.5341 2.4020 77.2 -91.5 READINGS INVALID 1.5341 2.4020 77.2 -91.5 READINGS INVALID 1.5401 READING RE				55.3	- 98.1	READINGS	CIJAVE
.5943 1.5333 53.7 -123.1 .002485 3.58 .5500 1.1557 34.1 -166.8 .002486 1.45 N) READING READINGS INVALID 1.1295 1.9219 43.3 14.0 .002571 2.17 1.0000 1.1086 15.1 -166.0 .002571 2.17 1.0000 1.1086 15.1 -166.0 .002571 3.5 NO READING READINGS INVALID 1.4019 1.9943 34.5 16.4 .002710 1.63 1.3067 1.6229 27.2 -149.7 .002671 .98 1.2381 1.0743 53.5 -155.8 .002571 4.73 1491.00 NO REA ING READINGS INVALID 1.491.00 NO REA ING READINGS INVALID 1.2381 1.7559 70.5 - 42.4 .002593 11.02 2.2498 1.7559 70.5 - 42.4 .002849 10.87 NO READING READINGS INVALID 1.2361 2.4020 77.2 - 81.5 READINGS INVALID 1.6341 2.4020 77.2 - 81.5 READINGS INVALID 1.5107 1.8380 53.3 - 85.8 .002264 5.36 1.5795 1.5044 55.8 - 91.5 .002364 5.28 1.5483 1.1493 71.7 - 51.4 .002364 5.08 NO READING READINGS INVALID 1.3795 1.5024 55.8 - 91.5 .002364 5.08 NO READING READINGS INVALID 1.3795 1.5044 55.8 - 91.5 .002364 5.08		.5285	1.3533			.002377	1.56
1.1557 34.1 -156.8 .002486 1.45 N) READING READINGS INVALID 1.1245 1.3219 43.3 14.0 .002571 2.17 1.0510 1.5733 40.3 -14.0 .002571 2.17 1.0500 1.1086 15.1 -166.0 .002571 .35 NO READING READINGS INVALID 1.4019 1.9943 34.5 16.4 .002710 1.63 1.3067 1.6229 27.2 -149.7 .002671 .98 1.2381 1.0743 53.5 -155.8 .002571 4.73 1491.00 NO REA ING READINGS INVALID NO REAL ING READINGS INVALID NO REAL ING READINGS INVALID NO REAL ING READINGS INVALID 1.454 37.4 -58.4 .002849 10.87 NO READING READINGS INVALID 1.5341 2.4020 77.2 -91.5 READINGS INVALID 1.5483 1.1493 71.7 -51.4 .002364 5.28 NO READING READINGS INVALID				53.7	-123.1		3.58
N) READING READINGS INVALID 1.1245 1.9219 43.3 14.0 .002710 3.17 1.0510 1.5733 40.3 - 14.0 .002571 2.17 1.0000 1.1086 15.1 -166.0 .002571 3.57 NO READING READINGS INVALID NO READING READINGS INVALID 1.4019 1.9943 34.5 16.4 .002710 1.63 1.3067 1.6229 27.2 -149.7 .002671 .98 1.2381 1.0743 59.5 -156.8 .002571 4.73 1491.00 NO REALING READINGS INVALID NO REALING READINGS INVALID NO REALING 2498 1.7559 90.5 - 42.4 .002593 11.02 2322 1.4554 75.7 - 56.3 .002349 3.15 2145 1.1454 37.4 - 58.4 .002849 10.87 NO READING READINGS INVALID -5341 2.4020 77.2 - 91.5 READILGS INVALID -5351 2.4020 77.2 - 91.5 READILGS INVALID -5361 2.4020 77.2 - 91.5 READILGS INVALID -5363 1.1493 71.7 - 51.4 .002364 5.28 -5483 1.1493 71.7 - 51.4 .002364 5.08 NO READING READINGS INVALID -5401NG READINGS INVALID				34.1	-156.8	.002486	1.45
ND READING READINGS INVALID 1.1295							
1.1295 1.9219 43.3 14.0 .002710 3.17 1.0510 1.5733 40.3 - 14.0 .002571 2.17 1.0000 1.1086 15.1 -166.0 .002571 .35 ND READING RENDINGS INVALID 1.4019 1.9943 34.5 16.4 .002710 1.63 1.3067 1.6229 27.2 -149.7 .002671 .98 1.2381 1.0743 59.5 -156.8 .002571 4.73 1491.00 NO REALING RENDINGS INVALID NO REALING RENDINGS INVALID NO REALING RENDINGS INVALID 2498 1.7659 90.5 - 42.4 .002593 11.02 2322 1.4654 75.7 - 56.3 .002349 3.15 2145 1.1454 37.4 - 58.4 .002849 10.87 NO READING READINGS INVALID .5341 2.4020 77.2 - 91.5 READINGS INVALID .5341 2.4020 77.2 - 91.5 READINGS INVALID .5107 1.8380 53.3 - 86.8 .002264 5.36 .5795 1.5044 55.8 - 91.5 .002364 5.28 .5483 1.1493 71.7 - 51.4 .002364 5.08 NO READING READINGS INVALID			40	READINGS	INVALID		
1.0000 1.1086 15.1 -166.0 .002710 1.63 NO READING READINGS INVALID 1.4019 1.9943 34.6 16.4 .002710 1.63 1.3067 1.6229 27.2 -149.7 .002671 .98 1.2381 1.0743 59.5 -156.8 .002671 4.73 1491.00 NO REA ING READINGS INVALID NO REAL NG .2498 1.7559 90.5 - 42.4 .002693 11.02 .2322 1.4554 75.7 - 56.3 .002849 10.87 NO READING READINGS INVALID .5341 2.4020 77.2 - 81.5 READINGS INVALID .5341 2.4020 77.2 - 81.5 READINGS INVALID .5107 1.8380 53.3 - 85.8 .002264 5.36 .0795 1.5044 55.9 - 91.5 .002364 5.28 .5483 1.1493 71.7 - 51.4 .002364 5.28 NO READING READINGS INVALID 1.1305 1.9024 49.5 - 74.4 .002944 3.51			1.9219	43.3	14.0	.002710	3.17
1.0000 1.1086 15.1 -166.0 .002710 1.63 NO READING READINGS INVALID 1.4019 1.9943 34.6 16.4 .002710 1.63 1.3067 1.6229 27.2 -149.7 .002671 .98 1.2381 1.0743 59.5 -156.8 .002671 4.73 1491.00 NO REA ING READINGS INVALID NO REAL NG .2498 1.7559 90.5 - 42.4 .002693 11.02 .2322 1.4554 75.7 - 56.3 .002849 10.87 NO READING READINGS INVALID .5341 2.4020 77.2 - 81.5 READINGS INVALID .5341 2.4020 77.2 - 81.5 READINGS INVALID .5107 1.8380 53.3 - 85.8 .002264 5.36 .0795 1.5044 55.9 - 91.5 .002364 5.28 .5483 1.1493 71.7 - 51.4 .002364 5.28 NO READING READINGS INVALID 1.1305 1.9024 49.5 - 74.4 .002944 3.51			1.5733	40.3	- 14.0	.002571	2,17
NO READING READINGS INVALID 1.4019 1.9943 34.5 16.4 .002710 1.63 1.3067 1.6229 27.2 -149.7 .002671 .98 1.2381 1.0743 59.5 -156.8 .002571 4.73 1491.00 NO REA ING READINGS INVALID NO REAL NG 2498 1.7559 90.5 - 42.4 .002593 11.02 2322 1.4554 75.7 - 56.3 .002349 3.15 2145 1.1454 37.4 - 58.4 .002849 10.87 NO READING READINGS INVALID -5341 2.4020 77.2 - 81.5 READINGS INVALID -5341 2.4020 77.2 - 81.5 READINGS INVALID -5107 1.8380 53.3 - 85.8 .002264 5.36 -5795 1.5044 55.8 - 91.5 .002364 5.28 -5483 1.1493 71.7 - 51.4 .002364 5.08 NO READING READINGS INVALID				15.1	-166.0	.002671	• 35
1.4019 1.9943 34.5 16.4 .002710 1.63 1.3067 1.6229 27.2 -149.7 .002671 .98 1.238. 1.0743 59.5 -156.8 .002671 4.73 1491.00 NO REA ING READINGS INVALID NO REA. NG .2498 1.7559 90.5 - 42.4 .002593 11.02 .2322 1.4554 75.7 - 56.3 .002349 3.15 .2145 1.1454 37.4 - 58.4 .002849 10.87 NO READING READINGS INVALID .5341 2.4020 77.2 - 81.5 READILGS INVALID .5107 1.8380 53.3 - 86.8 .002264 5.36 .5795 1.5044 55.8 - 91.5 .002364 5.28 .5483 1.1493 71.7 - 51.4 .002364 5.08 NO READING READINGS INVALID 1.1395 1.9024 49.5 - 74.4 .002944 3.51				RENDINGS	GIJAVEI		
1.4019 1.9943 34.5 16.4 .002710 1.63 1.3067 1.6229 27.2 -149.7 .002671 .98 1.238. 1.0743 59.5 -156.8 .002671 4.73 1491.00 NO REA ING READINGS INVALID NO REA. NG .2498 1.7559 90.5 - 42.4 .002593 11.02 .2322 1.4554 75.7 - 56.3 .002349 3.15 .2145 1.1454 37.4 - 58.4 .002849 10.87 NO READING READINGS INVALID .5341 2.4020 77.2 - 81.5 READILGS INVALID .5107 1.8380 53.3 - 86.8 .002264 5.36 .5795 1.5044 55.8 - 91.5 .002364 5.28 .5483 1.1493 71.7 - 51.4 .002364 5.08 NO READING READINGS INVALID 1.1395 1.9024 49.5 - 74.4 .002944 3.51		- リノ てころフル	40	READINGS	CIJAVNI		
1.3367 1.6229 27.2 -149.7 .002671 .98 1.2381 1.0743 59.5 -156.8 .002671 4.73 1491.00 NO REALING READINGS INVALID NO REALING .2498 1.7559 90.5 - 42.4 .002593 11.02 .2322 1.4554 75.7 - 56.3 .002849 3.15 .2145 1.1454 37.4 - 58.4 .002849 10.87 NO READING READINGS INVALID .5341 2.4020 77.2 - 81.5 READINGS INVALID .5107 1.8380 53.3 - 85.8 .002264 5.36 .5795 1.5044 55.8 - 91.5 .002364 5.28 NO READING READINGS INVALID 1.1395 1.9024 49.5 - 74.4 .002944 3.51		1.4019	1.9943	34.5	16.4	.00271U	1.63
NO REAL NG		1.3367	1.5229	27.2	-149.7	.932671	•9ძ
NO REAL NG		1.238.	1.9743	57.5	-155.8	. 332571	4.73
NO REAL NG	1491.00	1 ABS CV	VG.	READINGS	CIJAVKI		
.2322 1.4554 75.7 - 56.3 .002344 3.15 .2145 1.1454 37.4 - 58.4 .002849 10.87 NO READING READINGS INVALID .5341 2.4020 77.2 - 81.5 READINGS INVALID .5107 1.8380 53.3 - 85.8 .002264 5.36 .5795 1.5044 55.8 - 91.5 .002364 5.28 .5483 1.1493 71.7 - 51.4 .002364 5.08 NO READING READINGS INVALID NO READING READINGS INVALID 1.1395 1.9024 49.5 - 74.4 .002944 3.51		113 3 E A	1.17				
.2145 1.1454 37.4 - 58.4 .002849 10.87 NO READING READINGS INVALID .5341 2.4020 77.2 - 81.5 READINGS INVALID .5107 1.8380 53.3 - 85.8 .002264 5.36 .5795 1.5044 55.8 - 91.5 .002364 5.28 .5483 1.1493 71.7 - 51.4 .002364 5.08 NO READING READINGS INVALID NO READING READINGS INVALID 1.1395 1.9024 49.5 - 74.4 .002944 3.51		.2498	1.7559	77.5	- 42.4	.002593	11.02
.5341 2.4020 77.2 ~ 81.5 READIT.35 INVALID .5107 1.8380 53.3 ~ 85.8 .002264 5.36 .5795 1.5044 55.8 ~ 91.5 .002364 5.28 .5483 1.1493 71.7 ~ 51.4 .002364 5.08 NO READING READINGS INVALID NO READING READINGS INVALID 1.1395 1.9024 49.5 ~ 74.4 .002944 3.51		.2322	1.4554	75.7	- 56.3	.002344	3.15
.5341 2.4020 77.2 ~ 81.5 READIT.35 INVALID .5107 1.8380 53.3 ~ 85.8 .002264 5.36 .5795 1.5044 55.8 ~ 91.5 .002364 5.28 .5483 1.1493 71.7 ~ 51.4 .002364 5.08 NO READING READINGS INVALID NO READING READINGS INVALID 1.1395 1.9024 49.5 ~ 74.4 .002944 3.51		-2145	1.1454	37.4	- 58.4	.002849	10.87
.5107 1.8380 53.3 - 85.8 .002264 5.36 .5795 1.5044 55.8 - 91.5 .002364 5.28 .5483 1.1493 71.7 - 51.4 .002364 5.08 VO READING READINGS INVALID VO READING READINGS INVALID 1.1395 1.9024 49.5 - 74.4 .002944 3.51			43				
1.1395 1.1493 71.7 - 51.4 .002364 5.00 VO READING READINGS INVALID 1.1395 1.9024 43.5 - 74.4 .002944 3.51		.5341	2.4320	77.2	~ 91.5	READIT.35	GIJAVVI
1.1395 1.1493 71.7 - 51.4 .002364 5.00 VO READING READINGS INVALID 1.1395 1.9024 43.5 - 74.4 .002944 3.51		.5107	1.8390	53.3	- 35.8	•332264	5.36
1.1395 1.1493 71.7 - 51.4 .002364 5.00 VO READING READINGS INVALID 1.1395 1.9024 43.5 - 74.4 .002944 3.51		• > 795	1.5344	55.8	- 91.5	. 22364	5.23
				12.1	- 51.4	.002364	5.08
		NO READ!	NG	READINGS	CIJAVVI		
		V7 2=471	MG	READINGS	LIANALID		
1.0969 1.5305 33.8 - 42.7 .002439 1.39						.002944	3.51
				33.8	- 42.7		-
1,21,3				55.4	- 56.0	.002434	3.98
CILAVVI ZEVICZES OVICZES CV		ICVES CK	I AC	SENICEES			
CLIAVAL SEVICAES SPICAES CV		CABS CF	LNS	READINGS	CIJAVKI		
1.4127 1.9383 44.0 - 95.0 .002944 2.86 1.3229 1.5332 48.7 - 20.6 .002439 2.72		1.4127	1,9393	44.0	- 95.0	.002944	
1.3229 1.5332 48.7 - 20.6 .002439 2.72		1.3229	1.5332	48.3	- 20.5	.002439	
1.2605 1.0534 37.0 - 34.5 .002439 1.57		1.2505	1.0534	37.0	- 34.5	.002439	1.57

Table B-IX. Front-Upper Grid Calculations - Model 36 (Continued)

TIME MICROSEC	X INDHES	Y I NC HES	J FT/Sac	THETA DEGREES	YT12F3C SLU3S/2EU12	Q LB/SQFT
412/0366	145 165	145425	,	DEDICES	30033703.1	CD/SWII
1522.60	ICABS CV	ŅG	READINGS	INVALID		
	.3152	2.3538	READINGS	INVALID		
	.3085	1.7752	39.1	2.9	.002892	2.21
	.2781	1.4419	20.1	~ 29.1	•002938	•59
	.2657	1.1143	10.0	- 78.7	.002938	-15
	ICABA CK		READINGS			
	.5514	2.3524	READINGS			
	.6324	1.7948	47.9	- 78.2	•332409	2.76
	•5924	1.4557	42.2	13.4	.002386	2.12
•	.5943	1.1029	22.1	- 45.0	.002386	.58
	ICABS CV		SEVICES			
	ICABS CV			CILAVVI	002010	3 30
	1.1429 1.0857	1.8743 1.5505	40.3 23.0	-129.1 -114.8	.002819 .002469	2•29 •97
	1.0229	1.0535	25.3	- 42.0	.032469	•85
	ICABS CK		READINGS		•332409	•07
	ICASE CE		READINGS			
	1.4057	1.9505		171.9	.002819	•27
	1.3524	1.6057	13.4	- 58.0	.002919	42
	1.2686	1.0533	10.0	168.7	•002469	.12
1554.20	NO READI		READINGS		*002409	*12
273 1120	-2888	2.3180	50.3	-124.7	READINGS	TAVALED
	.2888	1.7578	45.3	-177.5	.002909	3.06
	.2498	1.4556	54.1	149.5	.002518	5.38
	.2156	1.1356	58.8	-176.8	.002618	5.19
	ICABS CV	ЯG	READINGS			
	NO READI	NG				
	.5205	1.7912	23.0	175.2	.002710	•72
	.5235	1.5141	25.1	171.3	.002427	.76
	.5539	1.1337	35.6	154.5	.032427	1.54
	ICAER CV		READINGS			
	ICABR CV	• •	READINGS			
	1.1141	1.8712	57.7	-124.2	•002699	4.49
	1.0751	1.5551	23.5	-111.8	•332559	•54
	1.0068	1.0751	7.9	104.0	•002559	.08
	ICABS CK			INVALID		
	ICABS CV			CIJAVI		
	1.3990	1.9902	27.0	98.1	•222699	• 98
	1.3327	1.5176	35.5	154.5	•002559	1.63
	1.2507	1.0554	11.5	- 9.5	.002559	•17

Table B-X. Front-Lower Grid Calculations - Model 36

1146	X	Y	t!		CENSITY	() 1945, ET
MICRUSEC	ENCHES	INCHES	FT/SEC	DEGREES	SLLUS/CUF1	LB/SGFT
					2.2162	.53
25.00	.7667	1.2552	2?.1	135.	.002152	,77
	.7552	.8857	25.4	157.4	.C.2397	, 09
	.2571	•5448	A.7	153.4	.CU2275	, 3(
	.2571	.1733	27.2	111.0	.502165	.11
	.2571	•CC38	10°C	168.7	,0u2165	,12
	•6038	1.3162	10.5	-158-2	,002099	1.41
	.6190	.9162	35.2	160.6	, Cu2364	• 64
	•6305	.5524	23.6	155.6	.0u2313 ,0u2396	.77
	. 6305	.1600	25.4	157.4		,56
	•6305	.0076	21.6	-174.H	.Cu2396 .Cu2331	391
	1.0552	1.3867	28.C	65.2	•605331	.23
	1.0248	.9524	14.2	-105.9	30024CC	,39
	1.0152	.5752	18.0	167.5	.Cú2159	,2 î
	1.0114	.2152	13.8	-171.9	.Cu2159	.15
	1,0133	*003H	11.7	180.0	.002134	,65
	1.4743	1.4990	23.5	~131.6	.002251	,15
	1,4095	1.0000	11.4	121.5	.0024CS	,3 _U
	1.3943	•6C38	15.8	-15C.3	.Cu2159	, 35
	1,3886	.2400	18.C	130.6	•0v2159	.15
	1.3905	.0038	11.7	180.0	.002379	308
65.4%	•5816	1.2690	d.1	45.€	.CU2371	,75
	,2660	.8951	24,2	71.6	•CU2495	-21
	,2660	.5114	12.9	- 63.4 - 77.9	•0u2152	,81
	.2544	.1515	27.4	- 33.7	.Cu2152	, û5
	,2544	.0039	6.9	35.U	.CU2143	.54
	•6339	1.2913	23.4	- 52.1	•CU2277	,54
	,6078	.9282	21.9	- 75.5	,Cu2261	3.24
	.6194	.5495	53,5	32.7	.002210	1.12
	,6175	.1864	31,9	- 13.0	.Cu2210	,12
	-6194	.0019	25.6	-135.0	.6.2380	1,26
	107447	1,3922	29,8	- 18.4	•Cu2328	, 04
	1.7272	.9358	led	- 69.4	.Cu2354	1,26
	1.0136	•5759	32.8	- 41.2	.002255	, 4, 7
	1.0175	.1942	20.4	- 8.1	.002255	15.
	1.0194	.0019	13.6 23.4	-121.6	,Cu2380	1,62
	1.4574	1.4738	29.3 16.4	- 69.4	.Cu232d	. 31
	1,4078	1.0019	15.8	14.0	·Cu2354	.29
	1.3322	.6039	21.9	15.3	.002255	₃ 54
	1.3422	.2468	23.3	- 9.5	.002255	,61
	1.3942	.0019	Z3#3	,,,,		

Table B-X. Front-Lower Grid Calculations - Model 36 (Continued)

T 1 44 5	J	Y	U	THETA	DENSITY	Q
TIME	X	INCHES	FT/SEC	DEGREES	SLUJS/CUFT	LB/SCFT
MICROSEC	INCHES	SMCHES	1 17 31.0	D201.220		
107.80	•2724	1.2610	16.8	35.5	.002665	•29
101900	2629	9086	24.5	- 28.6	.002150	.64
	•2629	•5333	- 17.7	6.3	·0u2356	• 37
	•2629	.1467	31.5	29.7	.Cu2(56	1.02
	•2629	.00CC	27.6	- 8.1	.002056	. 79
	.6229	1.3295	10.C	- 78.7	.CU2186	.11
	.6324	8990	15.8	- 29.7	·0J22C4	, 27
	.6438	•5010	45.1	- 85.0	.0u2651	2, 10
	.6571	.1771	31.8	- 79.4	.002396	1.21
	.6552	.0619	3.9	. 0	·CU2396	• 02
	1.0343	1.3657	57.5	-107.8	.002361	3,90
	1,0305	.95C5	11.9	- 80.5	•Cu2243	,16
	1.0267	.5448	14.1	- 56.3	. 002432	. 24
	1.0267	.2019	3.9	• 0	.Ou2125	, 02
	1.0267	.0019	2.C	• 0	.002125	, GO
	1.4590	1.4743	30.9	- 55.3	.002361	1.13
	1.4152	.9848	33.2	~ 45. 0	•Cú2243	1,24
	1.4095	.6076	31.5	- 7. î	•0u2432	1,21
	1.4095	.2457	20.1	- 29.1	· 202125	,43
	1.4133	.0000	17.7	6.3	.002125	, 33
149.20	2951	1.2777	19.2	126.9	•0J2383	,44
217020	.2874	。8935	4.3	63.4	, 002377	• ü2
	.2835	.5204	5.4	135.0	,002708	,)4
	.2816	.1670	24.C	151.4	· 2u2376	,69
	.2816	.0000	21.2	174.8	•CJ2376	,53
	-6058	1.2816	54.6	-161.6	.302339	3.48
	.6214	.9204	54.8	126.5	.C02192	3,29
	.6233	.5049	64.9	124.2	• C 02342	4.93
	.6233	.1553	46.4	172.9	.002421	2.65
	•6233	.0019	44.1	177.5	•CJ2421	2.36
	1.0272	1.3379	37.8	156.0	•Cu2324	1.66
	1,0291	.9282	32.8	-173.3	•Cu2250	1.21
	1.0214	•5592	33.5	149.0	•Cú2267	1.27
	1.0214	.1942	29.8	-165.1	.002232	, 99
	1.0214	.0019	28.8	180.0	•Cu2232	.92
	1.4699	1.4485	21.4	-153.4	• CC2324	•53
	1.4311	.9786	25.2	171.3	.002250	• 72
	1.4233	. 6000	32.6	176.6	.002267	1,21
	1.4097	•2311	40.4	-174.6	•Cu2232	1.83
	1.4117	•0039	48.1	175.4	•C02232	2.58

Table B-X. Front-Lower Grid Calculations - Model 36 (Continued)

TIME	X	Y	U		LENSITY	<i>r</i> .
MICROSEC	INCHES	INCHES	FT/SEC	DEGREES	SELUS/CUF1	LU/20F1
190.65	.2610	1.2762	42.3	- 56.3	.002441	2.14
	.2648	.9124	33.4	- 20.6	.Cu23+7	1,33
	•2590	.5371	35.4	- 6.3	aCU2414	1.51
	.2419	.1581	30.5	- 39.8	.CJ212)	, 9,
	.2419	.0019	23.5	4.9	.002100	_53
	•5714	1.3124	50.2	- 13.5	300224H	2.344
	•6000	.9429	63.C	- 29.1	aCU2271	4,51
	•6076	•5543	43.9	32, 2	~OU2319	2,24
	•6114	.1823	49.2	613	. 002319	2.81
	•6114	3003R	48,9		,002319	2,17
	1.0000	1.3810	49.0	- 4.6	·002240	2,74
	•9981	.9467	43.7	- 10.3	3CU2294	2.19
	•9981	•5619	50.8	• č	₀ 0⊌23∂2	3,27
	.9981	.1943	50.8	• O	" CU2293	2,90
	•9981	·C619	50.8	2.2	•Cy2293	2,96
	1.4400	1.4648	41.0	• 9	•002280	1.92
	1.3905	•9886	38.5	- 24.0	•CU2294	1,70
	1.3771	•6095	32.1	- 37.6	•002382	1,22
	1.3695	•2419	24.2	14.0	•CU2293	,67
	1.3657	•0038	23.5	- 4,8	•CJ2293	•63
232.30	•3184	1.2427	27.1	- 98.1	·Cu2225	, 92
	,3184	.3718	49.8	-105.6	.502491	3,03
	.3184	.5165	26.1	-107.1	₃C∪2488	• 85
	•3049	.1476	11.2	- 31.€	.Cu2326	• 15
	.3049	.0019	9.6	•1	.002326	.11
	.6544	1.2659	35.8	- 74.5	.002361	1.45
	•6757	•8893	49.9	- 92.2	。CU23/a	2,96
	•6602	•5282	10.3	-158.2	.002239	,12
	.671R	.1612	13.4	16C.J	3002387	,21
	£6718	.0019	13.6	-1/1.9	.002382	.22
	1,0757	1.3340	25.2	- 81.3	a 0 u 2 3 2 2	,74
	1.7719	.9204	11.2	- 59.0	• Cu2353	.15
	1.0718	•5592	9.8	- 78.7	3CJ2515	.12
	1.0718	•1942	6.1	- 71.6	,CJ2367	, (4
	1.6107	•0C39	2.7	45.0	•0u2367	,01
	1.5107 1.4660	1.4485 .9631	12.1 18.2	-108.4 18.4	*002322	a 1.7
	1.4485	•58C6	16.3	- 45.0	,0u2358	, 34 22
	1.4407	• 2369	12.9	- 45.0 - 26.6	• CU2515	• 33 2.
	1.4350	.0019	17.7	- 20.0 12.5	•0⊌2367 •0⊌2367	•2c •37
	£ • + J /G	•0017			\$ 5 U Z D U I	,) (

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Table B-X. Front-Lower Grid Calculations - Model 36 (Continued)

TIME	X	Y	U	THETA	DENSITY	ધ
MICROSEC	INCHES	INCHES	FT/SFC	DEGREES	SLUJS/CUFT	L3/SQFT
273.40	.2571	1.2495	62.1	-167.3	•0u2248	4.34
	•2514	-8648	70.5	-160.6	.Cy25d6	0,42
	.2514	,5124	78.4	175.7	.042572	7.96
	•2514	.1524	88.C	179.7	SU2265	8,76
	•2514	.0019	87.9	180.5	.Cu2265	8,76
	•5810	1.2781	66.1	-161.0	.302242	4,90
	•5981	.8933	64.6	-176.5	•Cu2397	4.92
	•5981	•5505	48.9	177.7	.002266	2.71
	•5981	£1829	50.8	180.0	•Cu2266	2,92
	•5981	.0019	50.8	18C.0	.002266	2.92
	1.0038	1.3562	52.6	164.9	.0,2347	3,25
	1.0038	.9371	55.€	173.9	.002188	3,31
	1.0000	•5524	60.7	-176.3	。002353	4.34
	1.0000	.1880	60.6	180.0	•022309	4.24
	1.0000	.0038	60.6	-178.2	•0u2309	4,24
	1.4362	1.4533	47.5	-170.5	2347 م	2,65
	1.4076	.9943	45.3	-172.6	•Cu2188	2.25
	1.3886	•5981	55•C	173.7	.Cu2353	3,56
	1.3810	•2362	41.8	-169.2	, 002309	2.31
	1.3829	.0076	43.C	180.0	•002309	2.14
314.80	. 2583	1.2291	29.2	- 23.2	·C62249	, 96
	•2524	.84 85	25.7	- 26.6	. 032533	.83
	•24°8	•5223	28.8	- 36.9	•0u2259	.93
	.2175	.1495	25.7	- 26.6	•Cu21CC	,69
	.2175	•0019	23.1	4.9	•Cu21CO	. 56
	•5922	1.2485	3C.C	- 63.4	•Cu2271	1,02
	.6317	.8854	8.1	- 45.0	•CJ2368	•08
	•6117	•53C1	5C.2	- 83.4	.002366	2.90
	•6214	•1612	20.C	- 73 _e 3	• C€2428	,49
	.6214	•0019	5• 8	• 0	•6u2/28	• 04
	1.0252	1.3476	39.9	- 54. ส	. 0∪2∠65	1.80
	1.0175	•9262	29.3	- 58.4	·C02321	, 99
	1.0117	•5553	17.7	- 49.4	•CJ2395	• 37
	1.0117	.1942	15.C	50 •2	•0u2284	. 26
	1.0117	.0019	9.8	11.3	.002284	.11
	1.4641	1.4408	34.7	- 83.7	•CC2265	1.37
	1.4214	•9573	42.3	- 84.8	•0ú2321	2.08
	1.3942	• 5864	7.9	- 76.0	• 302395	.07
	1.3922	•2291	18.2	- 18-4	•9J2284	. 38
	1.3922	.0019	15.8	- 14.0	•Cu2284	• 29

Table B-X. Front-Lower Grid Calculations - Model 36 (Continued)

TIME	X	Y	ti	THETA	CENSITY	Q
MICROSEC	INCHES	INCHES	FT/SEC	DEGREES	SLUGS/CUFT	LB/SQFT
-		-	-			
356.20	•283 ^a	1.2361	62.1	- 77.3	.0.2424	4.68
	.2743	.8533	61.1	- 82.6	•0u254C	4,74
	.2743	•4952	47.9	- 78.2	·0u2844	3,27
	.2743	.1410	16.8	- 54.5	.002640	,37
	.2743	.0038	1C.C	11.5	.002640	.13
	,5943	1.2514	46.5	• 0	.002279	2.51
	•6038	•8876	13.8	- 45.0	·902216	.21
	•6038	•5010	35.2	- 86.8	·0u2423	1.50
	•6038	.1638	8,1	166.0	•062304	. 07
	-6038	- 2619	7.8	18C.0	•0u23C4	, 37
	1.0267	1.3238	35.9	- 67.6	.002438	1.57
	1.0190	.9124	44.6	- 61.2	.002389	2.38
	1.0114	•5390	21.1	- 56.3	•002444	.55
	1.0095	.2006	13.8	- 45.)	.0U2229	.21
	1.0095	.0057	9.8	• G	.042229	sil
	1.4400	1.419C	43.3	-108.4	.002438	2,28
	1.4114	.9524	15.3	-129.b	•002389	•28
	1.3905	•5905	22.3	-127.9	.Cu2444	10.
	1.3481	.2305	17.5	-153.4	•C-2229	, 34
	1.3931	•0038	15.6	180.0	·002229	.27
397.60	.2718	1.1689	40∙€	-106.7	•302136	1.71
	•2602	.7893	17.3	95.7	.002492	o 46
	•2505	•4757	1.9	180.0	•CL2562	,00
	•2272	-1359	6.1	-108.4	.002297	. 04
	.2272	•0039		180.0	•Qu2397	•00
	•6388	1.2485	5.8	180.0	.002295	, 04
	•6214	.8757	25.G	- 94.4	.002248	• 72
	•6136	.4951	11.7	99.5	.CC2378	.16
	.6136	•1631	15.5	- 97.1	.002376	•2s
	•6136	.0019	6.1	108.4	·002376	,04
	1.0388	1.3146	39.1	11.3	.002497	1.91
	1.0388	.8874	30.7	• 0	•CU2564	1.21
	1.0233	.53.7	7.7	- 89.9	•0u2630	.08
	1.0214	•1845	19.7	-119.1	• Cu2553	,50
	1.0214	•0C19	9.8	-168.7	.062553	•12
	1.4505	1.4000	19.3	- 5.7 - 20.0	.002497	•4t
	1.4117	.3456	17.3	- 90.0	•0u2564	. 38
	1.3906	•568ª	11.7	- 99.5	JC02630	•18
	1.3767	•2214 0010	7.7	18C.C	.002553	.08
	1.3767	.0019	6.1	-161.6	•0u2553	•05

Table B-X. Front-Lower Grid Calculations - Model 36 (Continued)

** ***	u		4.1	T115 T A	30 CLTV	•
TIME	X	Y	U	THETA) + 0.460EX
MICROSEC	INCHES	INCHES	FT/SEC	DEGREES	SLUGS/CUFT	L6/SOFT
439.00	•2724	1.2000	20.8	48.8	•0u2508	• 54
	.2724	.8724	47.3	51.7	.002600	2,91
	•2724	•4952	31.5	29.7	•Cu2720	1.35
	.2724	.1352	42.9	- 24.2	.032899	2,66
	.2724	.0038	41.1	- 2.7	,002899	2,45
	•5886	1.2514	25.5	-147.5	.002008	,65
	.6019	.8629	18.4	- 58.0	.C.2218	, 3e
	.6019	.5124	27.4	. G	•JJ2318	∗ d7
	.6019	•1486	48.3	- 58.2	.0J2614	3,05
	•6019	.0076	23.5	• 0	•0u2614	,72
	1.0648	1.3314	18.5	-108.4	·002540	. 44
	1.0495	.9124	12.4	- 18.4	·0u2496	.19
	1.0114	25314	26.6	- 17.1	•Cu745?	.87
	1.0000	.1829	15.3	- 39.8	•Gu2284	.27
	1.0000	•0038	13.8	- 8.1	.0J2284	-21
	1.4590	1.4171	19.2	- 24.0	.Cu2540	.47
	1.4114	•9352	21.1	- 33.7	s0u2496	•56
	1.3886	~5790	29.9	~ 11.3	.002457	1.15
	1.3905	·23C5	38.4	- 14.7	.CJ2284	1,68
	1.3924	.0019	31.3	• C	,002284	1.12
487.4C	•2854	1.1845	4.3	26• ć	30.2341	, 32
	•2893	.8252	42.6	-144.2	.€62531	2.29
	•2777	•4913	37.0	-158.7	•0ú2365	1,62
	• 2660	.1184	39.5	-150.9	3332962	2.31
	• 2680	•0019	34.5	180.0	•Cu2962	1.76
	•6175	1.2350	12.9	26,6	. 0u2266	,19
	•6311	.€6 €2	19.3	95.7	•0u2329	.43
	•6408	•4951	1.9	18C.J	·002287	• 00
	88£ 6•	.1223	6.1	108.4	,0u2548	, 05
	•6369	.0019	4.3	-116.6	.CG2848	, Ú3
	1.0330	1-2971	50.3	-162.3	•002426	3,07
	1.0505	• 6 8 3 5	37.7	-165.3	•0u2526	1.79
	Le0485	•53C1	9.8	101.3	•0u25C7	.12
	1.0330	.1748	9.8	78.7	·002519	.12
	1.0350	•0000	2.7	45.0	· 0u2519	.01
	1.4680	1.3922	27.9	164.1	•0u2426	•95
	1.4291	9340	39.5	119.1	•Cu2526	1.97
	1.4097	.5631	9.6	126.9	·002507	•12
	1.4136	.2117	12.3	128.7	.002519	.19
	1.4078	.0019	7.9	166.0	.0v2519	• 98

Table B-X. Front-Lower Grid Calculations - Model 36 (Continued)

TIME	X	Y	U	THETA	DENSITY	Q
MICROSEC	INCHES	INCHES	FT/SEC	DEGREES	SLUGS/CUFT	LB/SQFT
521.80	.2762	1.2019	41.5	61 2	04.2227	2 02
721400	.2381	.8476	19.2	41.2 66.0	•002337 •002343	2.02
	•2381	•4819	27.6	- 45.0		•43
	•2381	•1162	6.2	18.4	.002477 .002735	• 95
	•2381	.0038	2.0	•0		•05
	•6COO	1.2571	23.5	4 • 8	•002735 •002288	•01
	•600C	.8819	30.9	55.3	•002302	.63 1.10
	•6C00	•5124	7.C	123.7	•002302	
	•6000	•1543	43.C	92.6	•002323 •002458	•06 2•28
	.6000	.0038	2.C	18C. 0	.002458	
	1.0171	1.3162	19.5	• 0	.002511	•00
	1.0133	•9029	23.5	85 . 2		•48
	1.0095	•5410	10.5	68•2	.002414 .002506	•67
	1.0019	•1924	19.6	- 5.7		.14
	1.9019	.0057	13.8	8.1	.002257 .002257	•44
	1.4324	1.4248	33.4	20.6	.002231 .002511	•22
	1.3924	•9695	26.3	48. C	2002511 2002414	1.40
	1.3829	•5867	16.6	45.0	•002506	•83
	1.3829	•24CO	9.8	- 53.1	•00250	• 34
	1.3848	•6038	15.6	• 0	.002257	•il
563.20	.3165	1.2117	35.0	- 9.5	•002390	.28
)03tL9	.2971	.8427	72.9	- 3.0	•002392	1.46 6.36
	.2971	.4718	34.7	6.3	•002592	1,62
	.2718	.1204	31.C	21.8	•002534	1.02
	•2699	.0019	28.8	- 3.8	•002534 •002534	1.05
	.6408	1.2369	33.1	-100.0	•002334	1.35
	•6485	.8854	32.6	- 90.0	•002713	1.20
	•6369	•5010	23.0	- 90.0	.002280	•60
	6369	.1650	20.6	-111.8	•002260 •002466	•51
	6350	.0019	10.3	-158.2	.002406	•13
	1.0524	1.2971	20.6	21.8	.002451	•52
	1.0524	.9068	31.7	- 65.0	.002379	1.20
	1.0524	.5398	17.7	- 12.5	·CC2418	•38
	1.0524	.1728	25.2	- 8.7	.002637	.84
	1.0485	.0019	25.2	- 8.7	.002637	•84
	1.4990	1.4039	9.6	- 53.1	.002451	•11
	1.4466	•9534	16.4	-110.6	.002379	•32
•	1.4214	.5748	23.3	- 99.5	.002418	•66
	1.4194	.2939	30.0	-116.6	.002637	1.19
	1.4233	.0019	13.6	-171.9	.002637	-24
		·				₩ ₩ ₹

Table B-X. Front-Lower Grid Calculations -Model 36 (Continued)

TIME	X	Y	U	THETA	CENSITY	Q
MICROSEC	INCHES	INCHES	FT/SEC	DEGREES	SLUGS/CUFT	LB/SCFT
604.60	•3105	1.1962	6.2	- 71.6	•002782	• 65
	•3105	•8438	6.2	18.4	~0u2815	, 35
	.2724	•4857	7.8	180.0	3CU2789	•0+
	42667	.1276	25.5	85.6	·C03070	1.00
	•2667	.0019	3.9	• 0	•Cu3070	• 02
	•5943	1.2248	8.7	116.6	•002692	₃ Ç ਖ਼
	•6000	.8495	28.9	-118.3	, 002328	•97
	•6000	•4895	4.4	153.4	. 002204	.02
	•5924	•1352	19.9	-101.3	·062378	.47
	•5905	.0000	2.	180.7	.002378	, ၁0
	1.0362	1,,3238	44.	41.4	.Cu25C3	2.46
	1.0267	.8743	16.8	- 35.5	•CU2606	.37
	1.0267	•5371	4.4	- 63.4	.062763	• 23
	1.0267	.1886	11.9	80.5	•Cu2663	.19
	1.0267	.0019	10,5	158.2	•GG2663	.15
	1.4381	1.4171	22.3	74.7	+CU2503	•62
	1.3867	•9543	21.C	-111.8	•002666	₅5 8
	1.3790	•5638	7.C	-123.1	.002753	.07
	1.3695	•2133	12.5	141.3	•0u2663	.21
	1.3714	.0019	14.2	164.1	• Gu2663	.27
646.00	•3184	1.2058	38.4	177.1	•0u2399	1.77
	• 3029	•8447	46.6	176.5	•Cu2531	2.75
	•2893	•4718	11.7	170.5	•Cu27C4	-18
	•2738	.1456	9.6	-126.9	•002520	.12
	•2738	.0019	5.8	180.0	• Ju2529	. 04
	•6369	1.2447	44.5	82.6	• 0421Ci	2,08
	•6350	•86C2	19.7	60.9	•Cu2265	.44
	•6330	•5029	43.3	77.2	•CJ223C	2.09
	•6330	•1456	45.6	67. H	•QJ25C4	2,60
	•6330	.0019	19.5	11.3	•Cu25C4	.48
	1.0854	1.3262	21.9	74.7	•Cu2388	•57
	1.0660	.8971	46.4	97.1	•002535	2.12
	1.0544	•5359	12.9	116.6	• GU2580	.21
	1.0544	•1845	16.3	135.0	.Cu2615	. 35
	1.0389	•0058	11.7	170.5	•CC2615	.18
	1.5049	1.4252	17.7	77.5	•0û2388	•37
	1.4388	• 9340	10.3	21.8	• 0u2535	.14
	1.4175	•5689	21.2	95.2	·0u2580	•58
	1.4097	.2117	30.3	108.4	.002615	1.20
	1,4097	•0058	9.8	168.7	•0u2615	.12

Table B-X. Front-Lower Grid Calculations - Model 36 (Continued)

TIME	X	Y	U	THETA	DENSITY	Q
MICROSEC	INCHES	INCHES	FT/SEC	DEGREES	SEUGS/CUFT	LP/SQFT
687.40	•2724	1.1981	29.8	148.4	.002307	1.03
	.2648	.8514	28.9	-151.7	.0u2573	1.07
	.2610	.4876	49.9	149.4	• CC2578	3.22
	.5610	.1200	37.9	-145.5	•0u2561	1.84
	.2610	.0019	31.3	180.0	•CJ2561	1.25
	•6000	1.2686	46 a C	167.7	•CU2128	2.25
	•6095	.8667	13.1	116.6	•Cú2382	• 20
	. 6095	•5314	9.8	53.1	•0U2320	.11
	•6095	.1771	20.4	73.3	•Cu2221	. 46
	•6095	•0638	5.5	• Ù	•CC2221	• 94
	1.0419	1.3448	21.6	-174.8	•0u2483	•58
	1.0210	•9200	21.8	169.7	•Gu2483	, 59
	1.0210	•5416	22.1	-135.0	.002718	• 66
	1.0152	.2000	39.9	168.7	•CC2428	1.93
	1.0152	•0038	21.6	-174.8	.C02428	•57
	1.4419	1.4343	43.0	177.4	.0ú2483	2,30
	1.3962	•9581	30.5	129.8	•Cú2483	1,16
	1.3771	•5848	16.1	-166.0	.002718	•35
	1.3600	.2419	11.4	149.C	. 0⊍2428	. 16
	1.3619	.0038	6.2	-161.6	•Cu2428	• 05
728.80	.2932	1.2214		INVALID		
	•2737	.8311	READINGS	INVALID		
	.2486	•4971		INVALID		
	•2427	.1243		INVALID		
	•2427	.0019		INVALID		
	•5922	1.2544	23.4	-125.0	•062090	•57
	•6291	.8718	15.3	180.0	.002289	•27
	•6388	.5107	21.7	-135.6	•0u2550	•60
	•6388	•1650	26.1	-120.0	•Cu25C8	. 85
	.6388	•0019	15.5	-172.9	-002508	• 3ŭ
	1.0641	1.3243	24.9	-157.4	•0u2518	•78
	1.0447	•9010	13.6	171.9	•0u2375	: 22
	1.0388	•5204	28.5	132.3	•C026C7	1.06
	1.0155	•1422	19.2	-143.1	4002352	• 43
	1.0175 1.4621	.0039 1.4272	17.3	186.9	•002352	•35
			9.6 33.1	18G.0 8C.0	.0u2518	•12
	1.4194 1.4019	•9573 •5650			.202375	1.30
	1.4019	•2175	12.1 32.6	- 71.6 - 90.0	•0u2607 •0u2352	.19
	1.4000	.0039		~ 90.0 -135.0		1.25
	167037	€ €00€	2,7	-133+0	.002352	.91

Table B-X. Front-Lower Grid Calculations - Model 36 (Continued)

TIME MICROSEC	X INCHES	Y INCHES	U FT/SFC	THE TA	UENSITY SLUGS/CUFT	Q LB/SQFT
770.20	NO READI NO READI NO READI	NG				
	NO READI					
	NO READI					
	•5867	1.2495	32.1	- 37.6	•0u2226	1.14
	•5943	•8667	2C•4	-106.7	•0u24C3	•50
	•5943	•5162	23.5	-138.4	.Cu2211	.61
	.5943	•1562	43.9	-122.3	•C02427	2.34
	•5943	•0019	23.5	175.2	•Cu2427	,67
	1.0190	1.3352	54.1	-139.4	•002500	3,65
	1.0076	•9219	35.2	-146.3	.002214	1,41
	1.0019	•5695	23.5	180.0	.062387	•66
	1.0000	.1866	9.8	- 89.9	•Cu2574	.12
	•9981	.0038	2.C	18C.3	•CJ2574	.00
	1,4324	1.4343	50 . 7	-117.6	• 002500	3.21
	1.4019 1.3810	•9905 •5733	29.3	-126.9	• Cu2274	• 35
	1.3600	•2095	11.1 17.7	-135.0	• GJ2387	.15
	1.3600	•0019	23.5	173.7 ~175.2	•0u2574	,43
811.6C	•2738	1.1534	READINGS		.062574	.71
011400	•2544	.8350	READINGS	INVALID		
	•2485	•4757	READINGS	INVALID		
	-2485	.1049	READINGS			
	.2485	• 2039	READINGS			
	.6175	1.2350	47.4	- 76.0	.CU2375	2.67
	•6233	.8524	29.0	- 82.4	.002452	1.03
	•6214	•4951	27.1	- 81.9	•Cu2392	• ៨៦
	•6155	•12è2	5.4	- 45.0	-Cu2748	.04
	•6155	•0039	3.8	• G	•CJ2748	• 32
	1.0233	1.2893	50.2	- 83.4	·002519	3.17
	1.0155	.8816	40.3	- 87.3	.002393	1.94
	1.0155	.5204	54.2	- 81,9	.002609	3.84
	1.0155	•1825	15.5	- 82.9	•Cú2515	•3C
	1.0155	•0039	3.8	• 0	.002515	• 02
	1.4388	1.3825	57.8	- 95.7	•0u2519	4.21
	1.4019	•9340	45.6	-112.2	•C02393	2.48
	1.3942	•5573	20.7	-146.3	•002609	. 56
	1.3825 1.3806	•2154 •0019	11.2	149.C	• G02515	.16
	103000	•0019	9.6	18C.0	.002515	•12

Table B-X. Front-Lower Grid Calculations - Model 36 (Continued)

TIME	X	Y	U	THETA	CENSITY	Q
MICROSEC	INCHES	INCHES	FT/SEC	DEGREES	SLUGS/CUFT	LB/SQFT
853.00	NO READI NO READI NO READI NO READI NO READI •5981	NG NG NG	22•3	-105.3	002270	50
	•5981	.8381	39.6	-110.2	•002329 •002356	•58 1•84
	•5981 •5981 •5981	.4895 .1524 .0019	12.4 7.8 3.9	~108.4 89.9 89.9	•002577 •002577	•18 •08 •02
•	1,0248	1.2857	25.4	- 67.4	• GC2685	.87
	1.0095 1.0095	.8819 .5162	24•2 11•7	76.0 90.0	•C02468 •002719	• 72 • 19
	1.0019	.1733	14.9	-101.3	.002732	• 54
	1.0019	.0038	2.8	-135.3	•032732	.01
	1,4267	1.3771	24.5	28.6	•C02686	.81
	1.3848 1.3638	•9486 •5619	8.7	- 63.4	• CU2468	•09
	1.3505	•2152	14.9 21.8	- 65.8 - 63.4	.002719	.30
	1.3505	•0019	15,6	• 0	.002732 .002732	•65 •33
894.40	•2893 •2660	1.1573 .8311	READINGS READINGS	INVALID INVALID	•00213&	• 23
	•2544 •2544 •2544	•4583 •1649 •0039	READINGS READINGS READINGS	INVALID INVALID		
	-6117	1.2136	22.4	- 59.0	.002236	• 56
	. 6097	.8155	18.2	- 18.4	.002509	.41
	.6175	•4835	18.1	- 32.0	.002421	.40
	•6155	•1359	34.3	- 63.4	~C02822	1.66
	•6155	.0000	15.3	.0	•002822	• 33
	1.0330	1.2660	8.1	- 45.0	• CG2455	• 08
	1.0214 1.0155	.8583 .5087	21.9 21.9	- 52.1 - 52.1	•002402	•57
	1.0117	.1631	21.4	- 10.3	•002493 •002658	•60 •61
	1.0136	.0019	53.7	•0	• GU2658	3.83
	1.4602	1.3942	21.9	- 15.3	.002455	•59
	1.4058	.9262	40.8	- 41.2	•002402	1.99
•	1.4000	•5437	32.5	- 45.0	.002493	1.32
	1.3922	.2000	27.2	- 50.7	.002658	• 99
	1.3961	.0019	17.4	6 _e 3	•002658	• 40

Table B-X. Front-Lower Grid Calculations - Model 36 (Continued)

				T.15 T.A	ACHELTY	U
TIME	X	Y	U	THETA	DENSITY	LEISUFT
MICROSEC	INCHES	INCHES	FT/SEC	DEGREES	SLLUS/CLFT	F6/3/9 1
025 00	•2762	1.1467	117.7	11.5	·0u2451	16,97
935.80	•2667	.8C38	130.5	- 16.5	.002574	21.90
	•2629	.4629	137.9	7.3	.002544	24.20
	•2629	.0933	139.9	15.4	.Cu3576	34,97
	•2629	.0057	134.9	8	"ũu3576	32,52
	.6065	1.1848	129.7	- 6.1	.002356	19.82
	.6152	.8324	140.4	8.8	.CJ2361	23.27
	.6133	4800	124.1	7.2	•3J2365	18.22
	.6133	.1219	125.8	- 6.2	.GU2720	21.53
	.6133	.0019	125.1	1.8	.CU2720	21.30
	1.0305	1.2800	133.1	3.4	,002468	21,8/
	1.0229	.8648	127.1	1.8	.002395	14.34
	1.0229	4990	125.1	1.8	.CU2754	21,56
	1.0229	.1695	129.C	• 9	.Cu31C4	25.83
	1.0552	.0038	127.C	9	.0u3104	25, 35
	1.4476	1.3714	104.5	- 7.5	"CU2468	13.47
	1.4152	.9219	108.9	- 9.3	•0u2395	14,20
	1.3867	•535C	111.5	- 3.0	• Cú2754	17.14
	1.3676	.1943	107,5	• 0	•0J31C4	17.93
	1.3676	.0038	103.6	• 0	.003104	16,65
977.20	.4039	1.1866	29.2	113.2	.002237	, 95
711320	.3903	.7942	11.7	99.5	.002691	.13
	.3903	.4757	26.9	85.9	. 002605	, 94
	.3883	.1417	48.C	87.7	·0u2867	3,30
	.3883	.0019	2.7	- 45. 3	.Cu2867	.01
	.7398	1.2000	21.4	79.7	.002346	, 54
	.7476	.8369	19.7	119.1	.0J2521	• 49
	.7398	-4990	26.1	107.1	.002259	,78
	.7398	.1223	36.2	122.0	·002937	1.92
	7398	.0039	19.3	174.3	.002937	• 55
	1.1650	1.2738	18.1	32.0	.002581	.42
	1.1476	.8621	20.7	56.3	.C02548	,55
	1.1398	.5126	65.3	93.4	•Cu262ò	5.60
	1.1398	.1650	43.1	94.6	·002795	3.23
	1.1398	.0000	36.5	-177.0	.002795	1.36
	1.5631	1.3806	39.5	50.9	.002581	2,32
	1.5126	.9087	26.7	111.0	.502548	.91
	1.5107	•5379	48.1	94.6	.002626	3,04
	1.4990	.2000	42.2	92.5	•Gu2795	2,49
	1.4990	.0019	4.3	- 26.6	•CO2795	.03

Table B-X. Front-Lower Grid Calculations - Model 36 (Continued)

TIME	X	Y	U	THETA	CENSITY	Q
MICROSEC	INCHES	INCHES	FT/SEC	DEGREES	SLU _U S/CUFT	L3/SUFT
1010 43	2773		20.1	175 1	0.0000	11 60
1018.60	•7648	1.1733	99.1	-165.1	• Cu2360	11,58
	•2648 •2648	•8152	97.9	176.6	0:2727	13,06
	• 2 6 4 8	•4895	129.2	176.5	.002763	23.37 27.19
		.1410	140.3	-161.3	.0u2764	
	•2648 4133	•0038	132.9	179.2	.002764	24,41
	•6133 6357	1.2057	122.4	-171.7	#002285	17.13
	•6057	•8495 5649	119.3	178.t	•002488	17,70
	•6057	•5048	167.6	177.9	•CU2279	13.18
	•5943	.1524	109.6	168.7	• CU2155	12,95
	•5943	.0038	107.5	130.0	•0ú2155	12.45
	1.0457	1.2855	122.7	~170°8	•0u2539	19,12
	1.7343	•8819 5/3)	118.6	171.5	•C02724	19.15
	1.0190	•5638	114.4	163.1	• Cu2654	17,36
	1.0190	.2171	121.2	-179.1	.002320	17.33
	1.0190	.0019	127.1	178.2	.002320	18.73
	1.4724	1.4019	106.2	-173.7	.062539	14.31
	1.4057	.9467	95.3	164.5	·0J2724	12,37
	1.3829	•5867	117.5	176.2	.002654	18.32
	1.3657	•2362	115.0	170.2	.002320	15,34
	1.3714	•0019	109.4	18C.C	•062320	13.49
1060.00	.3287	1.1553	38.1	- 49.1	.002579	1,87
	•2932	•8000	30.3	34.7	.002705	1.24
	•2621	•4835	33.9	- 42.7	•0u2330	1,34
	•2563	.0971	31.4	- 37.6	. SU2464	1,47
	•2563	• 9039	25.C	- 4.4	•CU2964	, 93
	•6194	1.1825	31.2	- 42.5	·002529	1.23
	•6291	•84C8	34.3	- 26.6	€CU2575	1.51
	•6330	•5029	52.1	- 54.c	•Cu2292	3.12
	.6330	·1537	42.6	- 7.8	•Cu29C5	2,63
	•6330	.0039	42.2	- 2.6	.042905	2.59
	1.0447	1.2544	43.1	- 57.7	•Cu2667	2.47
	1.0311	.8796	35.C	- 80.5	• C∪2485	1.52
	1.0311	•5456	5C•6	- 65.4	002542	3,26
	1.0194	.1631	53.0	- 77.5	•CU2604	3,66
	1.0136	.0039	11.5	• û	•Cu26C4	,17
	1.4583	1.3689	15.5	- 97.1	• CU2667	. 32
	1.4214	.9343	35.C	- 80.5	•Cu2485	1,52
	: • 3942	•5456	43.8	-61.2	•Cu2542	2,43
	1.3864	.2194	47.9	- 36,9	, ℃u26C4	2.99
	1.3903	.0019	32.6	3.4	•Cu2604	1,39

Table B-X. Front-Lower Grid Calculations - Model 36 (Continued)

TIME	×	Y	U	THETA	DENSITY	Q
MICROSEC	INCHES	INCHES	FT/SEC	DEGREES	SLUGS/CUFT	LB/SQFT
MICROSEC	14CHC3	111011123				
1101.40	•2895	1.1448	6.2	- 18.4	.002527	• 65
11010.0	.2895	.8324	23.9	55.0	.062439	.69
	.2895	.4667	32.5	- 32.1	.CU2832	1.50
	.2895	.1219	33.6	- 35.5	·CU2835	1.60
	2895	.0019	35.2	- 3.2	.CU2835	1.76
	.6362	1.1848	7.C	-123.7	.Cu2378	.06
	.6362	.8343	11.9	-170.5	.CU2446	→17
	.6362	.4629	15.8	-150.3	.002500	• 31
	.6362	.1467	14.9	-156.8	.062737	• 30
	.6362	.0019	13.8	171.9	.002737	,26
	1.0686	1.2533	19.2	66.€	•Cu2583	∙ 48
	1.0400	.8476	15.8	- 7.1	•0J2650	• 33
	1.0400	.5181	35.0	- 63.4	·CG2572	1,57
	1.0305	.1657	27.6	- 8.1	.CL2656	1.01
	1.0305	.0019	33.2	• C	•C02656	1.47
	1.4705	1.3867	36.4	36.3	•0J2583	1.71
	1.4114	.9124	17.7	- 83.7	.002650	,41
	1.4038	•5486	20.1	- 60.9	·002572	•52
	1.4038	.2076	11.9	- 9.5	.002656	, 19
	1.4038	.0038	3.9	• 3	•0ú2656	• 02
1142.80	.3146	1.1534	43.1	110.9	•002828	2.62
	.3068	.8194	23.1	-131.6	.Cu2796	, 74
	.2893	.4560	34.7	173.7	•Cu2616	1.58
	.2835	•0777	34.6	176.8	•0u3758	2.24
	.2913	•0019	34.7	173.7	•0u3758	2.27
	.6155	1.1767	42.9	153.4	•Cu2365	2.17
	.6175	•8368	44.7	149.C	•C02288	2,29
	.6194	.4951	58.4	131.0	.C02188	3.73
	•6194	•1379	54.2	135.C	•0u2713	3.99
	.6194	•0058	38.5	174.3	•Cu2713	2.01
	1.0524	1.2718	66.C	125.5	•CU2470	5.37
	1.0466	.8777	33.5	149.0	•002450	1.38
	1.0466	.5146	29.3	168.7	•0J2783	1.20
	1.0466	.1592	29.9	129.8	·0u2815	1.26
	1.0466	.0039	19.5	168.7	.002815	• 54
	1.4874	1.3903	29.8	104.9	·\$02470	1.09
	1.4233	.9165	44.1	92.5	•0ù2450	2.39
	1,4039	•5282	25.7	116.6	•C02783	• 92
	1.3981	.2175	29.9	129.8	•CU2815	1.26
	1.3942	.0019	19.2	180.0	•0u2815	• 52

Table B-X. Front-Lower Grid Calculations - Model 36 (Continued)

TIME	x	Y	U	THETA	CENSITY	Q
MICROSEC	INCHES	INCHES	FT/SEC	DEGREES	SLUGS/CUFT	
***************************************		•.,•				
1184.20	.2743	1.1848	15.8	-119.7	• CO25C4	.31
	.2743	.8152	18.C	-139.4	·C62698	.44
	.2552	.4705	28.2	-123.7	.002830	1.12
	"Z55Ž	.1238	47.9	101.8	•Cu2554	2.93
	.2552	.0057	17.7	173.7	.002554	.40
	.5981	1.2038	45.6	46.7	•002253	2.34
	.5981	.8571	30.3	14.9	·0u2423	1.12
	•5981	.5067	27.4	4.1	•CU2452	• 92
	•5981	.1848	16.8	54.5	•C02226	• 31
	.5981	•0057	10.5	- 21.8	•CC2226	.12
	1.0305	1.3067	3.9	- 89.9	·002335	• 02
	1.0114	.8648	18.5	-161.6	.002396	•41
	1.0114	•5238	26.3	132.0	•002577	• 89
	1.0114	.1886	35.C	153.4	· CO2385	1.46
	1.0114	.0057	31.3	180.0	·002385	1.17
	1.4629	1.4152	21.8	63.4	.002335	• 56
	1.4095	.9562	18.5	71.6	·C02396	.41
	1.3924	.5714	41.8	100.8	•0u2577	2.25
	1.3848	.2305	5.5	135.0	.002385	.04
	1.3848	.0038	2.8	45.0	.002385	.01
1225.60	,3068	1.1398	READINGS			
	.2932	.8078	READINGS			
	.2738	•4427	READINGS			
	.2738	.1243	READINGS			
	.2738	.0039	READINGS			2 25
	.6466	1.2097	43.3	- 12.8	•002511	2.35
	.6466	.8466	48.0	- 28.6	.002634	3.04
	•6466	.4971	44.3	- 17.7	•0u2466	2.42
	.6291	.1515	72.9	- 54.6	.C02690	7.14
	.6291	.0019	42.2	- 2.6	.002690	2.40
	1.0524	1.2680	7.9	- 14.0	•002387	.07
	1,0291	.8718	23.2	65.6	.002517	•68
	1.0291	•5340	20.C	- 73.3	.002497	•50 •55
	1.0155	.1748	21.2	- 84.8	.002472	
	1.0155	.0039	1.9	-125.8	4002472 002387	• 00
	1.4971	1.4097	27.9	-105.9	.002387	• 93 1 36
	1.4291	•9340	32.8	- 96,7	.002517	1.36
	1.3961	.5689	13.6	- 98.1 - 74.7	.002497	•23 •59
	1.3942	.2214	21.9	- 74.7 - 18.4	.002472 .002472	.05
	1.3961	.0039	6.1	- 1007	•002712	6 U J

Table B-X. Front-Lower Grid Calculations - Model 36 (Continued)

TIME MICROSEC	X INCHES	Y INCHES	U	THETA	CENSITY	Q A D A C A C T
MICKOSEC	INCHES	INCHES	FT/SEC	DEGREES	CLUGS/CUFT	L8/SGFT
1267.00	NO READI NO READI NO READI NO READI NO READI	NG NG NG NG				
	•6400	1.1943	49.L	-118.6	.002479	2,37
	. 6400	.8343	26.2	-116.6	• 3u2532	. 87
	•6400	.4933	23.9	-145.0	•C02519	• 72
	•6400	.1257	41.5	- 98.1	•0u3143	2,10
	•6400	.0038	6.2	-161.6	•Cu3143	•)6
	1.0381	1.3048	22.3	-142.1	• CU2445	,61
	1.0210	•8857 •5049	12.4	-105.4	• Cé2390	-18
	1.0133	.1676	44 1 8•1	-102.8	• 0u2552	2,48
	1.0133	.0057	8.1	-104.0 -166.0	•002616	• ÚS
	1.4552	1.3886	3848	-139.1	.002616	• 08
	1.4057	•9238	10.C	-168 ₆ ?	.002445 .002390	1.84
	1.3905	•5581	29.9	-101.3	• Cu2552	.12
	1.3905	2095	30.6	-116.6	•C62616	1.14 1.22
	1.3905	•0019	25.5	-175.6	•Cu2616	,85
1308.40	•3068	1.1573	READINGS	INVALID	4502010	567
	.2990	.7825	READINGS	INVALID		
	.2971	.4369	READINGS	INVALID		
	2835	.0893	READINGS	INVALID		
	•2854	.0000	READINGS			
	•6233	1.1670	32.6	10.08	.002530	1.35
	•6350	.8233	50.6	119.5	.CC25CC	3.21
	•6272	.4835	52.3	118.4	· Cu2445	3,35
	•6233	.1107	84.3	107.2	•Cu3123	11.09
	•6233	.00C0	24.9	180.0	•0u3123	.97
	1.0350	1.2544	17.3	180.0	•Ç02488	,37
	1.0252	•86C2	36.4	9C• 0	.002333	1.55
	1.0194	.4913	72.9	93•€	•067662	7.08
	1.0136	.1670	58.3	99.5	•012800	4.76
	1.0078	•0019	10.3	-158.2	•Cu28CC	.15
	1.4680	1.3845	57.7	68.6	•0u2488	4.14
	1.4194	•9320	15.8	104.0	.002333	•29
	1.3903	•5398	48.5	100.4	• 0ù2662	3,13
	1.3806	.1942	40.8	131.2	• CU28CO	2.33
	1.3709	.0019	26,9	175.9	002800	1.01

Table B-X. Front-Lower Grid Calculations - Model 36 (Continued)

TIME MICROSEC	X INCHES	Y INCHES	U FT/SEC	THETA DEGREES	CENSITY SLUGS/CLFT	C F9/20F1			
1349.80	NO READING								
	NO READ!								
	NO READI								
	NO READS	-							
	NO READ!		21 2	94 4	.Cu2564	1,26			
	36152	1.2152 .8781	31.3 21.8	86.4 116.8	3CU2523	.6C			
	,6152	•5350	8.1	104.0	.0.2472	, ઇંદ			
	•6152 •6152	•205 7	52.1	77.0	,Cu2u18	2.74			
	•6152	.0038	12.4	18.4	.602018	15 د			
	1.0219	1.3048	23.5	46.4	• C02352	,65			
	1.0210	•9219	20.8	48.8	•Cu2678	• 5H			
	1.0133	.5771	45.1	72.3	J0U2543	2.59			
	1.0038	.2248	5.5	45.0	,002266	.03			
	1.0038	.0019	12.4	18.4	.Cu2256	.17			
	1.4762	1.4419	25.C	51.3	·0u2350	.74			
	1.4019	•9390	16.8	125.5	.002678	238			
	1.3752	.6038	42.9	114.2	CU2543	2,34			
	1.3638	.2400	26.1	103.6	.002206	•75			
	1.3638	BECC.	5.9	• f:	.Gu2206	, 74			
1371.20	.2757	1.1282	READINGS	INVALID					
	.2660	.8369	READINGS	INVALID					
	.2641	•4835	READINGS	INVALID					
	.2660	.1301	READINGS						
	.2718	•0C39	READINGS						
	.6252	1.1981	48.C	- 92.3	. 0u2381	2.74			
	•6252	.8427	34.6	- 93.2	· C02434	1.45			
	. 625?	•4913	59.5	- 91.8	•Cv2433	4.36			
	•6350	•1612	59∙C	- 91.6	.002694	6,42			
	•6350	•0039	2.7	-135.0	•CC2694	• 01			
	1.0505	1.2718	41.2	- 62.2	•0u2559	2.17			
	1.0388	.8757	58.6	-101.3	.032704	4.65			
	1.0330	•5340	75.2	-109.4	•0u2613	7.39			
	1.0175	.1709	69.3	-104.4	.002666	6.40			
	1.0194	•€058	17.4	173.7	.0.2666	,43			
	1.4835	1.4039	54.2	- 98.1	0.2559	3.76			
	1.4097	.9456	29.0 57.4	- 97.6 - 97.3	.002764	1.14			
	1.3728	•5786	57 . 6	- 93.8	•CC2613	4.34 3.11			
	1.3748	.2194	48.3	- 83.2	-002666 002666	• 05			
	1.3767	.0019	6.1	18.4	•002666	, U 7			

Table B-X. Front-Lower Grid Calculations - Model 36 (Continued)

TIME HICROSEC	Y INCHES	Y INCHES	U FT/SEC	THETA DEGREES	CENSITY S'LUGS/CUFT	Q LB/SQFT
1432.60	NO READI NO READI NO READI NO READI	NG NG				
	NO READI					
	.6133	1.1676	46.C	- 77.7	.Cu2517	2.66
	.6133	.8438	19.2	- 56.ũ	.002491	•45
	.6133	.48C0	37.6	- 81.0	.Cu2574	1.82
	.6133	.1371	34.2	-121.0	.063C81	1.80
	.6133	.0019	17.7	-173.7	.CC3081	~4 8
	1.0400	1.2686	21.8	- 25.6	. Cu2434	•58
	1.0095	• 3548	23.6	~ 65.6	.C02440	•68
	. 9886	.5067	27.2	-111.0	.GU244C	• 90
	9867	.1581	12.5	-141.3	• CG2 793	~ 22
	9867	20038	10.C	-168.7	•Cu2793	.14
	1.4686	1.3886	11.9	- BC.5	.002434	.17
	1.3981	.9165	31.8	-100.5	• 002440	1.23
	1.3714	.5467	43.0	- 92.6	.00244C	2.26
	1.3695	.1924	38.4	-107.5	.C52793	2.12
	1.3695	.0057	19.6	174.3	•Cú2793	,54
1474.00	.2874	1.0835		INVALID		
111100	.2718	.7845		INVALID		
	-2680	.4328	READINGS			
	.2641	.0971	READINGS	INVALID		
	.2641	.0039	READINGS			
	.6350	1.1534	6.1	-108.4	•Cu2405	. 04
	.6330	.8252	33.5	-103.2	.002402	1.35
	.6311	.4544	8.6	153.4	·CL2561	•09
	.6175	.1320	29.8	104,9	, Cu2941	1.30
	.6175	.0019	7.7	180. ú	.GU2941	, 09
	1.0699	1.2621	8.6	- 63.4	.002594	.09
	1.0485	.8544	15.5	- 29.7	.002676	• 32
	1.0233	.5087	31.Ĉ	21, 3	·062677	1.28
	1.0078	.1631	35.C	86.5	.003071	1.88
	1.9097	.0039	6.1	18.4	.063071	• 96
	1.4854	1.3922	1.9	18C.C	.CJ2584	.00
	1,4039	.9146	12.3	51.3	.Cú2676	. 20
	1.3709	•5359	19.2	- 53.1	.CU2677	±49
	1.3531	.1825	26.6	59.7	.003071	1.09
	1.3573	•0039	13.6	- 8.1	.003071	•28

Table 8-XI. Rear-Lower Grid Calculations - Model 36

TIME MICROSEC	X INCHES	Y INCHES	U FT/SEC	THETA DEGREES	DENSITY SLUGS/CUFT	Q LR/SGFT
	_					
13.00	2.4624	1.2917	29.2	-176.2	•C02191	493
	2.4722	1.0459	7.C	146.3	.002264	. 06
	2.4741	•6205	18.3	-148.G	.CU2356	• 34
	2.4683	·2985	16.0	- 76.0	•GU22û7	.53
	2.4683	.002n	13.7	171.9	•0u22C7	,2i
	2.8741	1.2546	11.C	-135.0	. 002170	.13
	2.8741	•9795	40.4	-125.2	•0u2342	1,91
	2.8644	•5776	17.6	173.7	.002123	,33
	2.8566	. 2205	13.6	- 90.0	•0u2303	.21
	2.8566	.0020	7.8	• €	.002363	.07
	3.2390	1.2332	13.7	-171.9	.002125	•2⊍
	3.2410	•9366	17.5	- 95.0	. 002348	.36
	3.2410	•5541	7.8	• 0	•CJ2153	, û6
	3.2449	•1815	21.7	-116.6	.C02341	,55
	3.2449	.0039	15.5	180., 0	.062341	. 28
	3.5590	1.2488	22.7	- 20.9	•002126	• 5 5
	3.5824	.9190	13.6	- 90. c	.002348	٠2٠
	3.6059	•5346	8.2	-135 . û	.002153	.07
	3.6959	.1580	5. 8	• €	. CU2341	, 94
	3.6059	.0020	7.C	33.7	•052341	. 36
54.30	2.4519	1.2885	32.5	- 14.0	•Cu2236	1.15
	2.4750	1.0231	26.4	- 25.6	.CG2443	• 85
	2.4596	.6077	15.4	39.8	.ûu2288	,27
	2.4615	. 2635	7.1	-123.7	"0 u2420	2 06
	2.4615	.0019	3.9	180.0	.002426	• 02
	2.8558	1.2385	34.9	-163.6	.CC2112	1,29
	2.8462	.9673	37.9	152.1	.Cu2327	1.67
	7.8423	•5712	29.5	143.1	.002170	• 95
	2.8519	•2077	30.C	121.6	•Cu2642	1.19
	2.9519	.0019	15.7	180.0	•Cu2642	• 33
	3.2365	1.2212	19.7	- 53.1	.002128	•41
	3.2231	• 9 3 6 9	10.0	101.3	,0U2449	.12
	3.2212	•5462	21.7	180.G	•¢ú2∠73	,53
	3.2173	•1750	26.8	162.9	.Cu2374	• 85
	3.1962	•0038	25.7	-175.6	•GU2374	. 78
	3.5712	1.2308	15.C	~113.2	.CJ2128	,24
	3.5538	•9038	12.6	141.3	.002449	•19
	3.5615	.5115	20.3	150.9	·CU2273	•47
	3.5788	.1481	17.8	-173.7	.002374	• 38
	3.5865	•0038	7.9	180.0	.002374	.07

Table B-XI. Rear-Lower Grid Calculations - Model 36 (Continued)

TIME	X	Y	U	THETA	JENSITY	G
MICROSEC	INCHES	INCHES	ST/SEC	REGREES	SLUGS/CLFT	E8/SQFT
95.60	2,4937	1.2839	45.C	- 7.4	; 002690	2.72
-	7.4956	1.0341	1,.8	-170.5	•C-2652	• lo
	2.4859	•6302	11.0	- 45.0	·St2477	.15
	2.4644	.2927	6.1	- 71.6	•Cu2193	, 04
	2.4644	.0020	2.7	- 45.0	•Cu2193	, úl
	2.8410	1.2449	5,8	- 89.9	.002167	, 94
	2.8410	.9971	13.C	-116.6	.CJ2211	.ly
	2.8410	•5951	9.7	-143.1	•Cu2193	, lu
	2.8410	.2459	7.8	- 53.3	•CJ2170	. 07
	2.8410	•0020	• 5	د' ه	.Cu2170	•60
	3.2507	1.2176	13.€	- 26.6	•CJ2329	,20
	3.2390	.9463	4.3	116.6	.0.2333	.02
	3.2195	.5541	16.€	-104.0	•C02107	.27
	3.2195	.1853	13.6	- 9C.0	•502212	• 2 ·
	3.2195	•0020	21.4	- 5.2	•Cu2212	,51
	3.5532	1.2391	35.7	-157.6	•Cu23#9	1.52
	3.5727	.9268	2.7	-135.0	•Cō2333	• 31
	3.5883	.5444	12.4	38。/	•CJ2107	•16
	3.5883	•1541	8.7	- 63.4	.302212	,04
	3.5989	.0020	17.6	- 6.3	•0J2212	, 34
136.90	2.4962	1.2827	15.9	- 82.9	·CC2364	,29
	? ,4635	1.0212	22.4	164.7	•CJ2491	,62
	2.4673	.5000	12.C	-170.5	•002341	• <u>1</u> 7
	2.4635	•2577	23.8	- 65.6	•Cu2493	,71
	2.4635	•0000	17.8	173.7	·C62493	a 4 (s
	2.8558	1.2327	16.2	- 14.0	•0u2ú82	.27
	2.8404	•9558	19.7	- 36.9	.062264	,44
	2.8346	•5654	5.9	• 0	•Cu2162	. 04
	2.8519	•20¢ú	20.6	- 73.3	•CJ2710	.57
	2.8519	.OC19	5.9	• €	.002710	, 05
	3.2481	1.2154	15.7	90∙ ĕ	.Gu236G	•29
	3.2212	•93C8	9.8	- 89.9	•CC2373	•11
	3.2173	•5308	8.1	104.5	.Cu2177	• 07
	3.2173	.1615	16.8	69.4	•0u2521	. 36
	3.2173	.0019	5.9	• C	•CC2521	.04
	3.5385	1.2173	37.4	18.4	• C62360	1.65
	3.5519	•9019	15.9	- 7.1	•0u2373	• 30
	3.5712	.5192	2.0	• 0	.002177	• 33
	3.5827	.1404	2.8	45.0	.002521	.01
	3.6C38	•0019	7.9	18C.C	·0C2521	. 0ಚ

Table B-XI. Rear-Lower Grid Calculations - Model 36 (Continued)

TIME	x	Y	บ	THETA	CENSITY	2
MICROSEC	INCHES	INCHES	FT/SEC	DEGREES	SLU5S/CUFT	LB/SOFT
178.20	2.4956	1.2683	46.9	-172.9	.002563	2.82
•	2.4741	1.0400	9.7	126.9	.002472	•12
	2.4741	•6263	15.2	129.8	.002309	.27
	2.4741	.2712	16.6	110.6	.C02316	•32
	2.4468	•0039	1.9	• G	.032316	•00
	2.8566	1.2410	21.3	31.0	.0v2113	•14
	2.8566	•9854	23.6	80.5	.002363	• 66
	2.8468	•5951	20.6	48.8	.C02182	•46
	2.8468	.2263	25.2	112.6	.002189	• 79
	2.8468	.0020	23.4	-175.2	.002189	•60
-	3.2507	1.2332	14.0	56.3	.002073	20 د
	3.2390	.9366	14.8	66.8	.002327	• 25
	3.2176	•5620	4.3	116.6	•Cu2136	• 02
	3.2254	.2049	30.4	116.6	.002152	• 99
	3.2254	.0920	13.7	171.9	.002152	•20
	3.5883	1.2468	23.6	9.5	.002073	•58
	3.5883	•9249	23.7	55.0	.002327	• 65
	3.5902	-5444	6. I	108.4	•002136	• 04
	3.5902	.1580	14.8	113.2	. 002152	•23
	3.5902	.0020	27.2	180.0	.002152	•79
219.50	2.4500	1.2769	33.5	- 61.9	.0ú2269	1.27
	2.4577	1.0288	29.5	- 36.9	.002368	1.03
	2.4577	.6115	36.3	- 77.5	.CG2314	1.52
	2.4577	.2:31	14.3	- 74.1	•Cu2377	• 24
	2.4554	.0000	31.6	- 3.6	·0ú2377	1.18
	2.8654	1.2385	32.3	- 52.4	.002153	1.12
	2.8442	.9788	29.8	- 82.4	•0u2255	1.00
	2.8481	•58C8	36.2	- 67.6	. 002305	1.51
	2.8423	.2231	22.4	- 52.1	.002355	•59
	2.8288	•00C0	13.8	• 0	•0ú2355	+22
	3.2558	1.2269	34.0	-100.0	.002341	1.35
	3.2269	.9442	34.0	- 80.0	.002275	1.31
	3.2154	•5346	35.0	- 38.2	•0ú2244	1.38
	3.2038	.1885	44.2	- 69.1	" 0ú2245	2.20
	3.2038	.0038	12.C	9.5	•002245	•16
	3.5615	1.2212	44.G	-100.3	.062341	2.27
	3.5654	.9212	49.8	- 99.1	.002275	2.83
	3.5092	•5250	41.1	- 73.3	.002244	1.90
	3.5769	.1538	15.9	29.7	.002245	•28
	3.5769	.0019	13.8	• 0	•002245	•21

Table B-XI. Rear-Lower Grid Calculations - Model 36 (Continued)

TIME	×	Y	IJ	THETA	LEWSITY	Q
MICROSEC	INCHES	INCHES	FT/SEC	DEGREES		LE/SUF1
260.80	2,5112	1.2390	55.I	- 50.7	•Cu2654	4,04
	2.4976	1.0224	64.8	- 51.1	.Cu2449	5.15
	2,4820	•5932	42.9	- 71.6	.Cu23#2	2.20
	2.4780	.2576	59.C	- 80.5	•302496	4.35
	2.4780	•0026	2.7	45.€	•Cu2496	.91
	2.8761	1.2156	46.9	~ 82.9	•Cu2161	2,33
	2.8605	.4561	54.C	- 69.5	. 0€2349	3,43
	2.8605	•5620	52.4	- 87.9	•0u2123	2.92
	2.8605	.2088	35.4	- ec.5	•CU2549	1.60
	2.8605	, 0020	23.4	4.8	·CU2549	.70
	3.2449	1.2300	53.7	-102.5	•Cc21C1	3.03
	3.2449	.9034	61.4	- 71.6	.062565	4.72
	3.2449	e54C5	41.9	- 76.6	*CU227C	1,9+
	3.2410	.1639	55.6	- 65.2	•Cu2385	3,60
	3.2371	•0039	23.4	- 4.3	•Qu2385	.65
	3.5805	1.2039	46.7	- 94.8	•GUZICI	2,23
	3.5805	.8761	64.3	- 95.2	.C∪2505	5.18
	3.6020	•5054	35.€	- 93.2	.CJ2270	1,39
	3,6039	.1659	33.C	- 61.9	.Cu2385	1.3.
	3.6039	•9020	17.5	• (•€ú2385	» 36
302.16	2.4846	1.2346	27.8	-135.0	•Cu2377	, 92
	2.4981	•9788	47.6	- 97.1	•CU2479	2,81
	2.4712	•5712	24 • C	-125.0	•0u2361	•68
	2.4673	•2154	18.6	-122.9	• შა2885	•50
	2.4673	.0019	23.7	-175.2	.002885	,81
	2.8712	1.1923	40.4	-133.G	*CJ2174	1.77
	2.8635	•9288	26.5	-138.0	.062268	₃ 9€
	2.8500	•5288	30.6	-135.3	•CJ2259	1,06
	2.8481	.1885	23.9	-170.5	.002910	• 83
	2.8519	.0019	19.8	174.3	•CJ2910	•5?
	3.2442	1.1750	30.C	-113.2	•002319	1.04
	3.2462	•8865	20.6	-163.3	.002547	.54
	3.2250	•4942	32.8	-122.7	3Cu2295	1.23
	3.2269	.1385	22.0	-153.4	•CU2965	•72
	3.2269	•0019	15.9	-172.9	•Cv2965	.37
	3.5577	1.1750	43.2	-136.8	•352319	2,16
	3.5596	.8577	15.0	-156.8	•Cu2547	.29
	3.5673	.4904	38.8	-156.0	•Cu2295	1.73
	3.5923	•1250	51.5	-136.5	•CU2965	3.93
	3.5942	•0019	37.4	180.0	•002965	2.07

Table B-XI. Rear-Lower Grid Calculations - Model 36 (Continued)

TIHE	X	Y	U	THETA	DENSITY	c
MICROSEC	INCHES	INCHES	FT/SEC	DEGREES	SEUGS/CUFT	LB/SQFT
FICKO3EC	LACHES	INCUES	11/320	DUGAL. 3	320037 CC. 7	CD7 3QC
343.46	2.4917	1.2199	27.4	- 81.9	·C-2664	1.C.
_	2.4917	.9756	14.0	-123.7	•CJ2595	•25
	2.4683	•5?37	3.7	~ 53.1	•Cu2531	,12
	2,4683	.2420	27.8	77.9	.Cu2531	1.02
	2.4546	.0000	6.ì	16-4	.Cu2637	• Û5
	2.8488	1.1863	37.5	-111.3	•032253	l 。ちま
	2.9410	•9385	19.4	-126.9	•SU2262	043
	2.8390	54C5	14.0	-123.7	•CJ2236	,22
	2.8371	.2049	7.0	146.3	.002624	• <u></u> 36
	2.8410	.0039	9.7	18C.ŭ	•Cu2624	.12
	3.2332	1.1727	14.8	- 65.8	•CJ2312	, 25
	3.2254	, 9976	27.2	- 94.1	.Cu2438	,90
	3.2273	•2132	17.9	12.5	•Cv2378	• 3b
	3.2215	.1541	19.4	53.1	•CJ2905	• 55
	3.2215	•0020	6.1	18.4	.002905	, 05
	3.5493	1.1746	40.4	- 54 . ?	•CJ2312	1.88
	3.5668	.87C2	34.3	- 42.7	• CC2438	1,44
	3.5668	. 4858	28.€	- 33.7	•CJ2378	•93
	3.5668	.1367	20.0	- 29.1	•0U29C5	s 5 %
	3.5668	•0020	15.6	7.1	.002965	, 36
384.76	2.4885	1.2577	16.9	-144.5	.Cu2614	.31
	7.4 404	•9673	21.3	-123.7	•C-2568	5 8
	2.4769	•5635	14.3	-164,1	•CJ2630	,27
	2.4731	•2423	26.4	116.6	•Cu2788	•97
	2.4731	•0038	2.8	ر. ♦45	• Ju2788	•01
	2.8577	1.1577	14.2	- 146.3	•042115	. 21
	2.8519	•9135	12.5	-108.4	.092274	•1ª
	2.8423	•5173	4.4	-116.6	•Cú2224	• C2
	2.8423	.1923	9.8	89.9	•0u2643	-13
	2.8423	.0019	4.4	-153.4	,002643	a 33
	3.2500	1.1615	8.8	-116.6	•Cu2152	≠ 0¢
	3.2442	8596	25.9	- 81.3	.002559	. 36
	3.2423	.4981	24.9	161.6	•Cu2316	. 72
	3.2385	•1538	38.8	120.5	.CJ2879	2,17
	2.2327	.0C38	19.7	186.0	•CU2879	•56
	3.5808	1.1423	25.5	-138.C	•C-2152	• 75
	3,5846	.8346	22.0	-153.4	•002559	•62
	3.5904	•4750	23.0	149.0	•Cu2315	,61
	3.6096	•1154	18.i	102.5	.002879	.47
	3.6096	.0038	4,4	-153.4	•CU2879	,03

Table B-XI. Rear-Lower Grid Calculations - Model 36 (Continued)

TIME	X	Y	U	THETA	CENSITY	Q
MICROSEC	INCHES	INCHES	FT/SEC	CFGREES	SLUGS/CUFT	LB/SCFT
426.00	2.4780	1.2098	4.3	-116.6	•Cu2571	• ċ 2
	2.4800	•9580	4.3	116.6	•Cu2596	. ú2
	2.4546	•5698	9.7	143.1	·CU2615	•12
	2,4566	.2654	9.7	180. C	•GU2437	•11
	2.4566	.0020	4.3	-153.4	·CU2437	.02
	2.8371	1.1785	14.8	60° 5	•C•2125	.23
•	2.8371	•9268	17.5	• 0	·C62422	5 1 7
	2.8371	•5366	20.6	41.2	•Cu2471	,53
	2.8371	.2146	8.7	63.4	•Cu2438	,03
	2.8371	.0020	1.9	180.0	J 002438	, GC
	3.2293	1.1649	8.7	- 26.6	•Su2419	• 69
	3.2293	.8722	17.9	4C.6	•3,2698	,43
	3.2039	•5210	13.7	135.0	•Cu2423	.23
	3.2020	.1873	8.7	153.4	·Cu2341	• 09
	3.2C20	.0020	11.8	-170.5	•CC2341	.16
	3.5298	1.1571	20.3	106.7	·CU2418	₃ 5€
	3.5473	•86C5	13.C	63.4	• 3 0 2 6 9 8	723
	3.5473	•5015	4.3	116.6	•002423	• ū2
	3.5629	•1443	16.7	125.5	•CG2341	•33
	3.5629	•0GC0	9.9	-168.7	•Cu2341	.11
467.30	2.4865	1.2038	19.8	174.3	•0J2499	,49
	2.4885	•9712	28.4	146.3	•CJ2472	1.00
	2.4692	•5692	9.8	143.1	•C-2457	•12
	2.4635	-2423	18.6	-122.C	•CJ2671	•46
	2.4692	.0019	10.C	-168.7	•0u2671	.13
	2.8635	1.1712	12.6	- 38.7	•CC2132	.17
	2.8692	•9135	2.0	89.7	. 002390	• 60°
	2.8577	•53C8	14.2	-123.7	·0-2289	•23
	2.8462	•20C0	12.6	-141.3	•Cu26C9	,21
	2,8404	.0019	9.8	180.6	₀ ℃62609	•13
	3.2577	1.1577	22.0	- 79.7	•QJ2252	•5>
	3.2577	.8712	14.3	74.1	•0J2517	.26
	3.2327	.5077	29.8	- 7.6	•0u2309	1,02
	3.2308	.1577	19.7	- 53.1	•¢¢2663	" 52
	3.2212	.0019	11.8	• 0	•0u2663	.19
	3.5750	1.1615	13.7	18.4	•0u2252	. 39
	3.5904	.8462	13.2	- 53.4	•Cu2517	» 22
	3.5885	.4788	11.5	- 59.0	•Cu23C9	.15
	3.6000	•1288	6.2	18.4	•Cu2663	• 35
	3.6CQQ	•0019	6.2	18.4	•002663	.05

Table B-XI. Rear-Lower Grid Calculations - Model 36 (Continued)

TIME	X	Y	U	THETA	DENSITY	Q
MICROSEC	INCHES	INCHES	FT/SEC	DEGREES	SLUGS/CUFT	LB/SOFT
508.60	2.4585	1.2117	12.4	-128.7	.002504	•19
	2.4566	.9737	23.3	- 90.0	.CU2443	•66
	2.4468	.5756	16.5	- 45.Û	·CU2542	• 34
	2.4468	.2498	6.1	- 71.6	•Cu2552	• 05
	2.4468	.00CO	•C	• C	.002552	.00
	2.8468	1.1767	17.5	- 90.0	.002318	•35
	2.8371	•9288	18.4	- 71.6	.002 `11	•37
	2.8293	•5249	13.7	- 98.1	•002. 7	•21
	2.8273	. 2068	14.0	- 56.3	.0024~/	.24
	2.8273	•0020	13.7	8.1	.002447	•23
	3.2332	1.1434	27.4	- 98.1	.002429	•91
	3.2332	•8859	24.7	-135.0	•002733	• 83
	3.2332	•5171	29.7	- 78.7	•Cu2523	1.11
	3.2137	.1717	19.1	- 66.0	.002496	.46
	3.2137	•0020	17.6	- 6.3	.002496	•39
	3.5473	1.1629	36.8	-108.4	.002429	1.65
	3,5532	.8488	15.2	-129.8	.002733	•31
	3.5532	.4917	9.9	- 78.7	.002523	•12
	3.5688	.1502	11.0	-135.0	•002496	.15
	3.5688	.0020	7.8	180.0	.002496	. 08
549.90	2.4788	1.1942	12.G	9.5	•C02397	.17
	2.4885	.9481	11.8	90.0	.002548	•18
	2.4808	.5577	21.7	•0	.002510	•59
	2.4654	.2365	9.8	126.9	.002726	•13
	2.4692	.0019	6.2	161.6	.002726	• 05
	2.8635	1.1538	21.7	174.8	•002246	•53 •21
	2.8750	.8962 .5173	13.2 14.3	-153.4 105.9	.0u2417 .0u2315	•24
	2•8558 2•8538	•1885	4.4	-116.6	•002313	•03
	2.8538	•0038	2.8	135.0	.002833	•01
	3.2538	1.1308	15.9	150.3	•002033 •002380	.30
	3.2404	.8538	21.7	174.8	.002478	.59
	3.2385	•4788	31.6	176.4	.GQ2416	1.20
	3.2385	#14G4	12.5	161.6	.003069	.24
	3.2385	0000	11.8	180.0	.003069	•21
	3.5635	1.1269	2.0	• 0	.002380	•00
	3.5808	.8346	7.1	-123.7	.002478	•06
•	3.5904	.4692	12.6	38.7	.002416	.19
	3.5923	.1212	19.6	158.2	.003069	.17
	3.5923	.0019	9.8	180.0	.003069	.15

Table B-XI. Rear-Lower Grid Calculations - Model 36 (Continued)

TIME	x	Y	U	THETA	CERSITY	ŷ
MICROSEC	INCHES	INCHES	FT/SEC	DEGREES	SLUGS/CUFT	LB/SCFT
591.20	2.4702	1.2137	32.5	72.6	•CU2657	1.41
	2.4566	.9854	29.4	97.6	• 2u2636	1.12
	2.4683	•5756	21.7	153.4	. 002564	36G
	2.4410	• 2576	13.7	-171.9	• Qu2526	•24
	2.4410	•0020	17.6	173.7	• Cu2526	.39
	2.8254	1.1727	29.1	126. 7	. 9∪2264	, 96
	2.8254	•9229	33.4	125.5	2 002377	1,32
	2.8254	.5385	34.3	132.7	•CC2318	1.37
	2.8254	• 2029	14.8	156.8	•3u252≥	•24
	2.8254	• 1039	2.7	- 45.0	•Cu2523	.01
	3.2195	1.1512	33.2	110.6	•002260	1.24
	3.2117	.8878	21.7	116.6	.Cu2554	.60
	3.2020	.5150	32.1	115.0	• €02366	1.22
	3.2020	.1756	24.3	118.6	•Cu2423	. 72
	3.2020	•0050	11.6	180.6	•Ce2423	, 16
	3.5493	1.1629	36,9	87. C	.052260	1.54
	3.5493	.8429	22.1	74.7	•CJ2554	• 62
	3.5629	•4995	14.i	105.9	∍0u2366	., 24
	3.5590	.1541	21.4	95.2	•Cu2423	, 56
	3.5590	.0020	2.7	-135.0	•CG2423	.01
632,50	2.4885	1.2250	34.8	132.7	•962537	1,54
	2.4846	•9769	10.6	-158.2	•0u2539	.14
	2.4615	•5673	25.?	141.3	•0u2415	,77
	2.4519	.2346	14.2	56.3	»CJ2639	,21
	2.4519	.0038	9.8	• 0	• ŰU2639	.13
	2.8462	1.1769	11.1	45.0	.CJ2176	,13
	2.8558	•9231	12.C	99.5	•CC2378	,17
	2.8327	•5423	23.7	48.4	•CC2195	.62
	2.8404	.1942	27.3	59.7	.0.2647	•99
	2.8558	.0919	13.9	- 8.1	.032647	,26
	3.2423	1.1615	35.5	7℃•6	•C52177	1.37
	3.2308	.8731	12.6	38.7	•CJ2396	,19
	3.2250	•5077	20.6	73.3	•CJ2352	•5ŭ
	3.2269	.1615	7.1	56.3	•0u2553	, 06
	3.2269	.0000	3.9	• G	·C-2553	• 62
	3.5654	1.1635	10.6	21.8	·032177	.12
	3.5865	.8558	39.9	57.1	•9J2396	1.90
	3.5865	•4827	10.6	68.2	•0u2352	.13
	3.5904	.1423	7.1	56.3	•002553	• 96
	3.5904	•00CG	2.8	- 45.0	•0∪2553	•01
						•

Table B-XI. Rear-Lower Grid Calculations - Model 36 (Continued)

TIME	×	Y	U	THETA	CENSITY	Q
MICROSEC	INCHES	INCHES	FT/SEC	DEGREES	SLUGS/CUFT	LB/SGET
673.80	2.4468	1.2390	36.2	-154.5	•CU24C6	L.5#
	2.4468	•9815	37.7	-124.5	·CU2543	l.oC
	2.4428	•5912	14.C	-146.3	.062449	• 24
	7.4488	.2693	8.2	-135.0	.002307	• 98
	2.4507	.0020	5.5	- 45.C	- 202307	3 C 3
	2.8332	1.1805	38.8	-126.7	.062129	1.60
	2.8234	•9346	23.7	-145.0	•C∪2431	•6€
	2.8410	.5561	28.2	- 74el	•0u2352	• 34
	2.8390	•2263	9.7	-143.1	•3u239ū	.11
	2+8390	•0C2C	25.2	180. Ú	•0u2390	, 76
	5.2312	1.1844	21.3	- 90.0	.Cu2245	•51
	3.2215	.8956	6.1	161.6	•002472	₄ 05
	3.2078	∙53მ5	19.5	174.3	.CJ2312	344
	3.2059	.1815	22.7	-160.0	•Cu2331	.6€
	3.2059	•0020	21.3	180.0	.Cu2331	,53
	3.5590	1.1668	19.4	- 90.C	.002245	•4Ž
	3.5707	.8761	17.5	- 90.0	•CJ2472	د د ه
	3.5668	•5093	3.9	- 89.9	•CJ2312	• 92
	3.5629	.1600	23.6	- 99.5	.0v2331	3 65
	3.5610	.0000	27.2	• C	.002331	.86
715.10	2.4538	1.2154	18.1	- 40.6	.002484	.41
	2.4635	•9462	18.1	- 49.4	·CC2512	.41
	2.4500	•5596	8.1	14.0	.002440	• 0a
	2.4462	•2288	8.1	- 14.0	•0u2794	.09
	2.455R	.0000	2.0	180.0	.0.2794	,01
	2.8231	1.1462	28.7	-164.1	• CG2238	• 92
	2 . 8365	•9096	21.3	-146.3	•0u2385	• 54
	2.8404	. 5154	35.5	-176.8	0 -235 0	1.48
	2.8327	.1885	34.9	-163.6	.002781	2.64
	2.8308	•0C19	33.5	180.0	. 052781	1.56
	3.2423	1.1464	42.4	-111.8	. 062253	2.03
	3.2250	.8750	16.8	- 69.4	. 0∪2354	33 د
	3.2058	•5096	22.4	- 74.7	•CJ2148	•54
	3.2058	•1538	15.9	-150.3	.Cu2619	.33
	3.2058	•0000	7.9	180., 6	•CJ2619	•08
	3.5654	1.1442	24.7	-118.5	, 202253	,69
	3.5865	. 8385	31.6	- 93.6	•0u2354	1,17
	3.5865	.4728	8. i	- 76.G	.002148	•03
	3.5865	.1192	25.9	- 81.3	•002519	•88•
	3.6173	•0000	13.9	8.1	.002619	. 25

Table B-XI. Rear-Lower Grid Calculations - Model 36 (Continued)

BKIT	X	Υ	U	THETA	DENSITY	Q
MICROSEC	INCHES	INCHES	FT/SEC	DEGREES	SLUGS/CUFT	LB/SGFT
756.40	2.4605	1.2273	13.7	- 98.1	•Cu2625	• 25
	2.4585	.9578	43.1	35.8	.0J2894	2.69
	2.4565	•5932	31.1	- 3.6	.002696	1.36
	2.4566	•2673	29.1	- 53.1	•C-26C1	1.10
	2.4488	.0020	7.8	• Ú	•CC26C1	• 06
	2.8059	1.1727	6.1	-108.4	•Cu2124	• 04
	2,8059	•9229	10.4	-158.2	ø0ú2249	,12
	2.8059	•5541	13.6	18C.0	•Cu2185	,20
	2.8059	.2166	24.0	-164.0	•Cu2357	.68
	2.8059	•0020	3.9	18C.J	•002357	.02
	3.2156	1.1454	36.5	-115.2	•0u2319	1.54
	3.2273	.88CO	27.2	- 85.9	·002577	, 96
	3.2137	.5171	19.5	- 95.7	a Cu2252	•43
	3.1922	·1137	21.3	• C	•0J2472	• 56
	3.1980	•002G	21.4	5.2	·CJ2472	.57
	3.5473	1.1454	42.9	- 95.2	·Cu2319	2,13
	3.5688	.8449	30.4	-153.4	•Cú2577	1.19
	3.5688	•5015	20.3	-163.3	•0 0 2252	.46
	3-5668	•1346	26.1	-138.0	.002472	. 84
	3.5746	•0020	50.5	177.8	•Gu2472	3,15
797 • 70	2.4519	1.2019	29.6	- 93.8	•C62911	1.27
	2.4981	•9712	13.8	- 9C.C	•0-2753	•26
	2•4808	•5577	19.8	- 84.3	•Cu25C1	,49
	2.4635	. 2058	8.1	- 76.0	•C03289	.11
	2.4635	•00CO	9.8	• 0	•0¢3289	•16
	2.8212	1.1464	23.0	- 59-0	◆ 0∪2282	. 6€
	2.8269	•9058	29.1	- 61.7	. 0∟2345	• 99
	2.8269	•5154	32.6	- 65.C	•CU2226	1.18
	2.8269	.1654	16,9	- 35.5	.00 2807	•40
	2.8269	.0019	13.9	- 8.1	0002867	•27
	3.2269	1.1977	27.6	- 85.9	•Cu2459	• 94
	3.2269	.8481	36.8	-105.5	。CC2567	1.74
	3.2038	•4964	20.6	-106.7	•9u2357	•50
	3.2269	•1538	11.5	- 59.0	•003288	• 22
	3.2269	.0019	•C	• 3	•GJ3288	• 00
	3.5615	1.1019	23.C	-121.0	•002459	• 65
	3.5596	.8250	29.1	-151e7	• 002567	1.08
	3.5673	•4731	20.3	-119.1	.002357	.48
	3.5673	•1019	4.4	- 63.4	•Cu3288	• 03
	3.5673	•3019	8.1	-166.0	•0ú3288	•11

Table B-XI. Rear-Lower Grid Calculations - Model 36 (Continued)

TIME	X	Y	ีย	THETA	DENSITY	Ç
MICROSEC	INCHES	INCHES	FT/SEC	DEGREES	SLU6S/CUFT	L8/SQFT
839.00	2.4585	1.1980	37.1	-137.1	•0u2578	1.77
	2.4585	.9541	78.2	-156.6	.002751	8.43
	2.4585	•5737	48.5	-177.7	.002737	3,23
	2.4585	.2595	43.4	153.4	•Cu2633	2.48
	2.4585	•0020	9.9	168.7	•GJ2633	.13
	2.8176	1.1532	25.3	- 94.4	•002152	.69
	2.8195	.8576	30.1	-104.9	.Cu2412	1.09
	2.8195	•5249	20.C	-119.1	•0u2369	.47
	2.8195	.2068	5.8	18C.C	.0J2537	. 34
	2.8195	.0000	5.8	18C. 0	.Cu2537	.04
	3.2176	1.1189	32.C	-1C4.0	• CC24G9	1.23
	3.2176	.8449	25.2	-157.4	.002701	-86
	3.2078	•4976	21.3	- 90.0	, 0u2360	54 ه
	3.1980	•1639	41.2	-135. C	•062604	2,21
	3.1980	•0120	29.1	18C.0	•C026C4	1.10
	3.5356	1.12	22.1	-127.9	• GU2469	•59
	3.5434	•8312	17.5	- 90.0	.352701	.41
	3.5590	•4839	20.3	- 73.3	•Cu2360	,48
	3.5688	•13C7	17.6	6.3	• CC2604	.40
	3,5668	•0000	17.5	• C	•C626C4	• 4Ú
880.30	2.4250	1.1769	37.0	-115.2	•0 024 82	1.79
	2.4269	•9464	41.4	-115.3	·0C2529	2.17
	2.4327	•5558	14.2	-123.7	.CU2410	•24
	2.4250	•2250	32.6	-115.0	•003809	1.66
	2.4538	.0019	28•C	129.3	.003009	1.19
	2.8192	1.1154	43.7	-144.2	.062418	2,31
	2.8192	.8764	41.5	- 31.4	•Cu2370	2.04
	2.8173	•4981	23.6	- 90.0	•C02293	•64
	2.8212	.1654	25.6	~ 90.0	.003279	1.07
	2.8212	.0019	2.€	89.7	•003279	• 91
	3.2192	1.0769	32.3	-127.6	J 002495	1.30
	3.2038	•8385	26.5	-138.G	. 002425	• მ5
	3.2038	•4692	18.6	-122.0	.002231	• 38
	3.1981	•1250	20.6	-106.7	•CJ3242	•66
	3.1981	•0019	6.2	-161.6	*0J3242	• 36
	3.5481	1.0846	44.0	-190.3	.002495	2.47
	3.5596	.8077	26.8	- 72.9	•0u2425	• 87
	3.5731	•4538	19.4	-114.C	.002231	•42
	3.5846	.1038	2.0	89.7	.003242	•01
	3.5846	.0019	2.8	45. 6	•003242	.01

Table B-XI. Rear-Lower Grid Calculations - Model 36 (Continued)

MICROSFC INCHES INCHES FT/SEC DEGREES SLUGS/CUFT I	L2/S0FT
	,46
	,46
921.60 2.4429 1.1649 19.1 - 24.6 .602499	
2•4410 •9171 34•3 - 47•3 •Cu2614	1,54
2.4507 .5620 36.5 - 64.8 .CJ2575	1,71
2.4449 .2362 20.6 - 29.1 .0.3031	,60
2.4410 .0234 9.9 168.7 .0.3031	,15
2.7824 1.1278 15.6 - 60.3 .0.2349	, 29
2.8546 .8761 14.8 - 66.8 .0u2618	•29
2.8195 .5015 11.3 31.0 .0.2398	,15
2.8195 .1815 11.3 (1GU2934	.19
2.8195 .0020 3.9 4.0 .002934	. ú2
3.1980 1.0927 8.2 -135.0 .0.2382	, 9੪
3.1980 .8273 7.8 - 89.9 .CJ2625	,)4
3.1980 .4820 1.9 89.7 .002391	• 90
3.1422 .1444 9.7 53.1 .Cu2721	.13
3.1922 .00C0 5.8 .C .0U2721	• Û5
3.5278 1.0829 7.8 - 89.9 .Cu2382	.07
3.5512 .8059 16.C - 76.£ .0.2625	,34
3.5512 .4663 17.9 -139.4 .CJ2391	, 36
3.5688 .1327 33.9 -166.d .0u2721	1.56
3.5688 .0020 19.4 18C.0 .CU2721	•51
962.90 2.4423 1.1692 25.1 135.0 .CU2482	,7៩
2.4500 .9154 23.7 138.4 .GJ2645	•74
2.4481 .5231 10.6 - 21.8 .GU2569	.14
2.4423 .2154 12.0 9.5 .0u2999	•22
2.4442 .0038 28.C - 5C.7 .CU2999	1.17
2.8269 1.1019 25.7 - 32.5 .002471	.81
2.8250 .8635 41.8 171.9 .0.2516	2.19
2.8269 .5038 8.4 135.6 .0U2357	• 0 ×
2.8269 .1750 18.7 108.4 .Gu3683	• 54
2.8250 .0019 4.4 -153.4 .003383	FG.
3.2135 1.0712 15.9 - 29.7 .002417	.30
3.2038 .8308 33.8 .0 .002500	,24
3.2038 .4712 11.8 .0 .0u2426	•17
3.2038 .1327 17.8 - 6.3 .003542	• 56
3.2038 .0019 18.1 12.5 .003542	35E
3.5481 1.0769 13.2 - 63.4 .C02417	•21
3.5635 .7923 9.8 - 89.9 .CC25CO	•12
3.5596 .4423 39.1 ~ 49.1 .0u2426	1.35
3.5519 .0962 17.6 - 63.4 .003542	•55
3.5654 .0019 8.1 - 14.0 .0.3542	•12

Table B-XI. Rear-Lower Grid Calculations - Model 36 (Continued)

TIME	X	Y	U	THETA	DENSITY	Q
MICROSEC	INCHES	INCHES	FT/SEC	DEGREES	SLUGS/CUFT	LB/SQFT
1004-20	2.4254	1.1824	13.7	45. 0	a U32507	•24
1004620	2.4234	.9327	17.6	83.7	.002710	•42
	2.4605	-5580	32.1	115.0	.002772	1.43
	2.4566	.2322	14.0	123.7	•CU2881	.28
	2.4585	•0020	7.0	- 33.7	·CU2881	• 07
	2.8039	1.1141	24.3	151.4	.002364	•68
	2.8137	.8820	9.7	53.1	.002391	.11
	2.8137	.5073	19.4	- 36.9	.002310	. 43
	2.8137	.1990	14.8	- 23.2	.002656	•29
	2.8156	.0000	19.4	• 0	•0ú2656	•5û
	3.2117	1.0849	5.5	135.0	.002505	. 04
	3,2117	.8273	5.5	-135.0	•C02561	• C4
	3.2098	.4820	12.3	- 71.6	•CC2419	.18
	3.2098	.1424	16.C	- 14.0	. 003007	.38
	3.2098	.0039	15.5	- . 0	.0u30C7	• 36
	3.5337	1.0712	14.1	-164.1	•002505	•25
	3.5512	.7961	17.4	-153.4	•002561	•39
	3-5766	.4371	7.0	56.3	•002419	• 06
	3.5766	.1171	17.4	26.6	. 003007	• 45
	3.5766	•00C0	33.0	• 0	. 003007	1.64
1045.50	2.4519	1.1788	22.4	- 15. 3	•002612	• 66.
	2.4519	•9327	23.7	4.3	•0u2506	, 70
	2.4346	•5519	25.7	175.6	•0ù2369	• 78
	2.4346	•2269	23.C	160.0	•C028C9	• 75
	2.4500	•00C0	23.6	180.0	•002809	•78
	2.8058	1.1135	2.8	135.0	•0U24C2	•61
	2.8308	.8712	23.0	- 31.0	.002501	• 66
	2.8423	•4923	15.0	- 66.8	.002440	.27
	2.8404	•1692	36.3	- 77.5	•003196	2.11
	2.8442	.0019	7.1	33.7	•0031,96	• 08
	3.2096	1.0750	27.8	-135.0	.002439	• 95
	3.2000	.8269	21.2	-158-2	•002570	•58
	3.2077	.4596	23.7	-138-4	.002466	•69
	3.2192	.1288	22.3	-135.0	•003465	• 84
	3.2192	•0019	15.9	-172-9	.003405	•43 60
-	3,5346	1.0731	23.7	- 85.2	.002439	.69 .42
	3.5481	.7846	18.1	-102.5	•0ú2570	
•	3.5635	•4481 •039	8.1	76.0	.0u2466	•08 •07
	3.5673	•1038	6.2	- 71.6	•003405	•01
	3.5981	.0019	2.0	• G	•003405	• 01

Table B-XI. Rear-Lower Grid Calculations - Model 36 (Continued)

TIME	X	Y	U	THETA	DENSITY	Ç
MICROS'EC	INCHES	INCHES	FT/SEC	DEGREES	SLUGS/CUFT	LB/SQFT
1086.80	2.4468	1.1766	7.8	18C.0	.0u2590	80.
	2.4468	•9346	14• ë	23.2	•CU2574	.28
	2•4351	•5600	32.5	72.6	•Cu2496	1.32
	2.4351	.2400	11.8	9.5	.36287C	.20
	2.4351	.0020	15.5	• C	•002870	, 35
	2.8020	1.1161	9.7	53.1	. 002485	.12
	2.8332	.87C2	2.7	-135.0	• Gú2556	•01
	2.8195	.4937	15.6	150.3	.002378	.29
	2.8215	•1639	11.0	-135.0	.003336	,2C
	2.8215	•0039	4.3	-153.4	•0ŭ3336	• 03
	3.1.922	1.0654	3.9	• 0	•C02452	. 02
	3.1922	.8195	10.4	21.8	2002503	.14
	3.1922	•4663	19.5	5.7	•002256	. 43
	3.1941	.1268	15.6	29.7	.003106	.38
	3.1941	-0 020	11.8	4. 5	• GG31C6	• 2 2
	3.5356	1.0478	29.2	- 93.B	•002452	1.04
	3.5473	.7785	35.1	- 6.3	•002503	1.55
	3.5785	•4449	35.7	- 45.0	→ C∪2256	1.44
	3.5785	•1112	35•8	- 40.6	.003106	1.99
	3.5785	•000G	5.8	180.0	.003106	• 05
1128-10	2,4442	1.1788	22.4	37.9	·0-2611	•66
	2:4654	•9385	32.8	57. 3	•Cú2748	1.47
	2.4442	.5827	17.8	6.3	•0ü2344	.37
	2.4462	•2288	20.3	- 29.1	.002988	.61
	2.4654	•0000	15.9	- 7.1	•C02988	.38
	2.8115	1-1212	16.7	135.C	•Cù2344	•33
	2.8288	. 8692	32.6	155.0	·002383	1,27
	2.8288	. 5000	17.6	-153.4	•002242	• 35
	2.8327	•1615	31.1	124.7	. 0u3047	1.48
	2.8404	.0000	17.8	-173.7	• Cu3047	•48
	3.2135	1.0750	24.9	108.4	•Cu2532	.78
	3.2096	.8308	9.8	143.1	.002387	.12
	3+2269	. 4615	25.7	85.6	.002431	.80
	3.2327	.1365	15.9	82.9	.003681	.46
	3.2308	•0038	2.C	• 0	•003681	.01
	3.5327	1.0442	10.0	191.3	•002532	.13
	3-5827	•78C8	29.1	118.3	.002387	1.01
•	3.5885	•4231	18.6	122.0	•C02431	.42
	3.5942	•08C8	16.9	125.5	•C03681	,53
	3.5923	.0019	3∗8	180.0	.003681	.18

Table B-XI. Rear-Lower Grid Calculations - Model 36 (Continued)

TIME	×	Y	U	THETA	DENSITY	٥
MICROSEC	INCHES	INCHES	FT/SEC	DEGREES	SLUGS/CUFT	LB/SOFT
				• • • •		
1169.40	2.4644	1.1962	11.8	-170.5	•662968	•21
	2.4644	•9620	33.5	-170.0	.002711	1.52
	2.4527	•5620	47.2	-109.2	•Gu2831	3.16
	2.4527	,23C2	20.6	-138. s	.003001	,64
	2.4507	.0000	36.9	177.6	•C03CC1	2.04
	2.7902	1.1278	16.6	-110.6	0002317	• 32
	2.9039	•8839	33.9	-166.8	·0u2427	1.39
	2.8039	•4859	31.6	-137.5	•062346	1.17
	2.8039	.1893	19.1	156.0	₀ 0€2755	•50
	2.8039	•0C20	25.3	175.6	. 0u2755	e 88
	3.1844	1.0888	38.2	-156.C	•062438	1.78
	3.1844	.8254	37.1	-132.9	•0û26C3	1.79
	3.1941	•4917	42.9	-174.8	.002287	2.10
	3.1961	.1424	45.5	-140.2	•0u2851	2.95
	3.1961	•0020	33.0	-176.6	•0u2851	1.56
	3.5337	1.0576	11.3	- 59.0	. 002438	.16
	3.5337	.8039	40.8	177.3	.002603	2.17
	3.5688	.4605	22.7	-163.0	• Cu2287	•59
	3.5688	.1249	13.7	-171.9	•902851	•27
	3.5688	•00C0	11.8	-170.5	.Cu2851	•20
1210.76	2.4327	1.1769	30.1	168.7	·002566	1.16
	2.4327	.9327	31.7	-150.3	.002610	1.31
	2.4288	•5385	23.7	-131.6	.0u2600	•73
	2.4308	.2154	16.2	166.C	• 063066	.40
	2.4288	•0019	17.9	173.7	•0u3006	.48
	2.8058	1.1058	34.C	-170.C	•0u2381	1.37
	2.7962	. 8615	23.7	-131-6	•0ú2448	•69
	2.8058	.4788	16.9	125.5	•C02369	• 34
	2.8154	•1692	22.C	-116.6	.003389	•82
	2.8154	•0019	9.8	18C. 0	•0u3389	.16
	3.1788	1.0596	29.5	-143.1	·CUZ421	1.06
	3.1846	.8038	32.C	-137.5	.C02411	1.24
	3.1846	•4577	42.1	-142.6	·002235	1,98
	3.1981	.1077	29.5	-143.1	•003990	1.74
	3.1981	.0019	15.7	180.0	•003990	•44
	3.5385	1.0346	10.6	-158.2	•0¢2421	.14
	3.5423	.7827	50.6	-103.5	·C02411	3.09
	3.5673	•4154	39.6	-153.4	·0u2235	1-75
	3.5808	.0788	19.7	18G. 0	•CU399C	•77
	3.5808	•0000	20.1	168.7	. 003990	.83

Table B-XI. Rear-Lower Grid Calculations - Model 36 (Continued)

Model 77, Shot 348

TIME	x	Y		70574		
MICROSEC	INCHES	INCHES	U	THETA	CENSITY	Q
		THORES	FT/SEC	DEGREES	SLUGS/CUFT	LB/SQFT
1252.00	2.4351	1.1961	33.2	172 2		
	2.4371	•9463	12.4	-173.3	• 002765	1.52
	2.4371	•5444		-141.3	.002757	•21
	2.4371	.2341	5.5	-135.0	·0u2733	• 04
	2.4332	.0020	10.4	- 68.2	•GU3071	.17
	2.7571	1.1220	8.C	14.0	•CU3071	•16
	2.7883		44.6	180.0	.0∪2255	2.24
	2.7941	•8663	13.6	- 90.0	.Cu2628	.24
	2.7941	•4995	9.7	-143.1	·CG2374	-11
	2.7941	•1658	19.4	-143.1	•0u3190	.60
	3.1610	.0020	15.5	18C.0	•003190	.38
	3.1610	1.0712	14.C	-123.7	•C62149	.21
		8039	19.2	-135.C	•C02669	,49
	3.1610	•4663	13.7	- 81.9	·9ú2371	.22
	3.1727	•1249	6.1	71.6	•C-31C1	.06
	3.1805	•0020	6.1	- 18.4	• Cu31C1	• 36
	3.5239	1.0537	22.1	-105.3	•CU2149	•53
	3.5220	•7551	45.3	- 80.1	•00269	2.74
	3.5337	.4429	6.1	- 18.4	.002371	.04
	3.5493	•1249	5.8	190.0	•0031C1	• 05
1293.30	3.5493	•0039	6.1	161.6	.003101	•06
1273#30	2.4000	1.1731	15.9	172.9	.002551	•32
	2.4231	•9250	24.3	-166.0	.002627	,78
	2.4250	.5346	22.4	142.1	• Qu2633	366
	2.4346	-2058	3.9	180.0	•0u3388	• 03
	2.4365	•0038	.C	• 0	•Gu3388	• 56
	2.7615	1.1058	16.9	-144.5	+GUZZ67	• 33
	2.7962	.8481	18.1	102.5	·C62490	•41
	2.7981	•4731	10.6	68.2	•902332	•13
	2-8000	•1577	15.C	23.2	.0ú3275	•37
	2.8000	•0019	33.5	• 0	·0u3275	1.83
	3.1712	1.0481	10.6	- 68.2	.002241	•13
	3-1712	. 7904	13.2	26.6	•CU2487	•22
	3.1865	•4442	40.2	- 11.3	·0u2314	1.87
	3.2000	-1135	34.8	42.7	.003973	2.41
	3.2038	•00C0	17.7	• 0	.003973	
	3.5327	1.0135	28 .0	-129.3	*OU2241	•62 •88
	3.5500	•7385	26.5	48.0	.002487	• 97
	3.5731	•4135	31.7	- 7.1	.002314	1.17
	3.5750	.0788	16.2	- 14.0	•Cu3973	•52
	3.5750	.0019	15.9	- 7.1	•CU3973	•50
						4 90

Table B-XI. Rear-Lower Grid Calculations - Model 36 (Continued)

TIME	x	Y	U	THETA	DENSITY	Q
MICROSEC	INCHES	INCHES	FT/SEC	DEGREES	SLL65/CUFT	LB/SQFT
1334.60	2.4195	1.1980	27.8	24.8	·002787	1.08
	2.4137	.9405	18.4	-109.4	•Cu2652	. 45
	2.4195	•5580	17.4	153.4	.002535	• 38
	2.4332	.2341	19.1	114.0	.002840	,52
	2.4332	.0020	4.3	- 26.6	.002840	• 03
	2.7434	1.1122	15.5	- 90.0	•GU2372	• 29
	2.7844	.8839	10.4	-158.2	•0024C5	•13
	2.7980	•5093	24.3	119.6	•0u2327	•69
	2.8078	.1756	12.3	-161.6	.002915	• 22
	2.8273	•002C	4.3	26.6	·Cu2915	• 03
	3.1649	1.0615	14.1	-164.1	.002459	• 25
	3.1727	.8098	14.8	-156.8	.002541	• 28
	3.2000	.4585	20.6	138.8	•002545	,54
	3.1980	•1483	31.1	176.4	·002896	1.40
	3.1980	•0020	34.9	18C.G	•9ú2896	1.77
	3.5063	1.0322	27.2	180.0	. 002459	•91
	3.5395	.7746	30.7	145.3	.002541	1.20
	3,5649	•4390	23.6	170.5	·C62545	•71
	3.5649	.1210	6.1	-161.6	.002896	• 05
	3.5649	.0020	7.8	18C.0	•062896	• 09
1375.90	2.4250	1.1346	15.4	-14C-2	•902529	.30
	2.4173	•9077	9.8	126.9	.0028C4	•14
	2,4096	•5423	12,5	161.6	.002577	•20
	2.4269	.2231	27.4	159.0	•0u33û5	1,24
	2.4404	•0019	25.6	180.0	•003305	1.03
	2.7615	1.0904	12.G	80.5	•CU2355	.17
	2.7865	. 8442	37.8	-128.7	•0u2679	1.92
	2.7865	•4942	28.7	-164.1	.002269	• 93
	2.7885	•1538	13.9	-171.9	•0u3589	• 35
	2.8038	.0038	33.5	180.0	•C03589	2.01
	3.1577	1.0442	24.C	−145• 0	。00238 7	•69
	3.1577	•7846	27.6	-175.9	·0u2571	• 98
	3.1712	•4577	27.8	-171.9	·0u22C7	• 86
	3.1692	.1154	26.8	-144.0	.003709	1.33
	3.1692	•0000	21.7	18C.0	.003709	•87
	3.5058	1.0135	32.0	-132.5	•0 02387	1.23
	3.5250	•7558	34.9	-163.6	·002571	1.56
	3.5500	.4173	28.2	-155.2	.002207	. 88
	3.5692	•0769	16.9	-125.5	.003709	•53
	3.5673	•0019	9.8	180.0	.003709	•18

Table B-XI. Rear-Lower Grid Calculations - Model 36 (Continued)

TIME	X	Y	U	THETA	DENSITY	Q
MICROSEC	INCHES	INCHES	FT/SEC	DEGREES	SLUGS/CUFT	LB/SQFT
1417.20	2,4078	1.1883	67.8	-166.8	.002653	6.09
	2.4078	•9483	35.0	-176.8	•0u2839	1.74
	2.4078	.5620	25.2	- 90.0	•0J2598	. 83
	2.4078	.2439	23.4	-155.6	·0ú2762	. 76
	2.4078	.0020	33.C	180.0	·CJ2762	1.50
	2.7454	1.1239	36.1	-143.7	·0u2283	1.49
	2.7610	.8546	29.2	-176.2	s0u2477	1.35
	2.7707	.5015	32.3	-147.3	.0u2337	1.22
	2.7941	.1737	29.7	-168.7	•C03062	1.35
	2.7941	•0020	27.4	-171.9	.003062	1.15
	3.1454	1.0478	55.2	-108.4	•Gu2611	98 دو
	3.1454	. 8078	28.€	-151.7	•0u2547	1.05
	3.1727	• 4546	53.9	-142.3	.002451	3.57
	3.1766	.1327	19.8	-101.3	•0u3155	. 62
	3.1766	.0020	9.5	11.3	•0u3155	, 15
	3.4849	1.0088	39.2	- 98.5	•C02611	2,01
	3.5063	.7649	56.6	- 95:9	•CJ2547	4.08
	3.5395	•4273	25.2	-157.4	•0u2451	. 7 8
	3.5551	.1073	21.3	180.0	.003155	• 72
	3.5551	•0020	19.5	-174.3	• 0u3155	. 60
1458.5C	2.3596	1.1692	26.3	-167.0	·0u2581	.89
	2.3827	•9058	31.7	-172,9	• Ju2758	1.3+
	2.4096	•5173	22.0	-153.4	•0028C3	∍6 8
	2.4358	.2135	35.5	- 56.3	•Cu3412	2,15
	2.4077	.0019	19.8	5.7	• 203412	,67
	2.7327	1.0692	52.1	-100.9	.002607	3.54
	2.7577	.8423	19.7	-126.9	•0J258I	.5C
	2.7596	•4769	19.7	-126.9	• Cú2343	• 45
	2.7596	.1461	37.5	-176.6	• 303648	2.05
	2.7769	•0000	33.5	180.0	· 003648	2.04
	3.1404	•9923	44.9	-127.9	.002385	2.40
	3.1327 3.1288	•7712 •4250	42.1	- 79.2	.C02537	2.25
	3.1654	.0963	23.0	-121.0	.032282	.60
	3.1788	.0019	26.8	-126.0	.004391	1.57
	3.5000	•9750	15.9 29.5	-172.9	.004391	•55
	3.5192	•7066	33.0	- 90.0 - 72.6	• CO2385	1.04
	3,5269	•4617	3.7.0 19.8	~ 95.7	+ Cu2537	1.38
	3.5481	.0769	16.8	~110 _• 6	+0ú2282 •0ù4391	o 45
	3.5481	•0000	6.2	161.6		•62
	28 240T	• 5000	U . Z	TOT O	•0 04391	• G9

Table B-XI. Rear-Lower Grid Calculations - Model 36 (Continued)

TIME	X	Y	U .	THETA	CENSITY	Q
MICROSEC	INCHES	INCHES	FT/SEC	DEGREES	SLUGS/CUFT	LB/SQFT
1400 90	2 2621	1 1004	2.2	0.1		
1499.80	2.3824	1.1824	27.C	- 21.0	.002717	• 99
	2.3766	.9444	24.0	- 14.ú	.002723	, 7 8
	2.3883	•5522	13.7	-135.0	.CU2748	.26
	2.4273	.2146	4.3	-116.6	。GC3477	• 03
	2.4273	•0039	9.7	٠Ŭ	.003477	•16
	2.7356	1.0732	19.4	- 90.0	•0u2447	• 46
	2.7493	.8390	24.5	-108.4	.CC2487	•75
	2.7590	•4859	23.6	- 80.5	.CU2318	• 65
	2.7610	•1717	33.2	- 24.C	•9u3151	2.30
	2.7610	•0020	21.4	5•2	.003151	• 72
	3.1180	1.0127	8.7	153.4	•0 024 84	• 09
	3.1532	.7668	32.3	- 57.3	•0ú2621	1.37
	3.1610	•4351	36.6	- 32.0	•0U2393	1.69
	3.1610	•1112	11.C	45.0	•0ù3648	• 22
	3.1610	.0000	6.1	-161.6	•0ú3648	• 97
	3.4849	•9795	46.3	-123.0	•CU2484	2.66
	3.5161	•7337	20.3	- 73.3	.0û2621	• 54
	3.5376	•4078	57.7	- 47.7	·0u2393	3.98
	3.5493	.0917	37-1	- 42.9	.003648	2.51
	3.5493	•0039	25.2	• 🤄	. 0u3648	1.16
1541.10	2.3846	1.1596	39.4	- 53.1	•G0279C	2,16
	2.4058	.9000	54.1	- 56.9	.002861	4,09
	2.4000	.5077	÷3.2	- 46.8	•062703	2.52
	2.4038	.2096	19.7	-143.1	•0u34C0	•66
	2.4173	.0019	23.9	-170.5	. CG34CG	• 97
	2.7327	1.05CO	28.2	167.9	+Cú2378	• 94
	2.7500	•8192	13.2	-116.6	• Cü2452	•21
	2.7635	•4538	6.2	- 18.4	. 002473	• 05
	2.7942	.1327	20.1	- 78.7	.C04CC7	.81
	2,7981	.0019	3.9	• G	.004007	•C3
	3.1327	.9962	23.0	-160.0	•0 0 2474	•65
	3.1500	.7442	47~5	-172.9	.052513	2.85
	3.1596	•4058	33.9	-144.5	.002365	1.36
	3.1731	.1038	7.1	123.7	•Cu4510	.11
	3.1731	, 0000	4.4	153.4	.004510	• 04
	3.4750	•9365	35.C	-141.8	.CG2474	1.52
	3.5250	.6808	38.8	-156.0	.002513	1.89
	3.5654	.3654	38.8	-149.5	•002365	1.78
	3.5750	.0519	35.2	-153.4	.004510	2.80
	3,5731	• 0000 ·	31.6	-176.4	.004510	2.25

Table B-X:I. Rear-Upper Grid Calculations - Model 36

TIME	X	Y	U	THETA	DENSITY	o
MICROSEC	INCHES	INCHES	FT/SEC	DEGREES		
					-	
30.00	NO READING		READINGS	INVALID		
	NO READI	NG	READINGS			
	2.5212	2.0731	52,0	- 79.1	•CJ2478	3,35
	2.5481	1.7231	29.0	-118.3	.002273	• 96
	2.5808	1.2538	44.1	-147.7	·002275	2.21
	NO READI	NG	READINGS	INVALID		
	2.8558	2.7654	READINGS	INVALID		
	2.8827	2.0577	42.4	-166.6	·002622	1,82
	2.8923	1.6904	40.5	-129.1	+0u2412	1.98
	2.9250	1.2615	26.3	-116.6	.002412	.84
	NO READII	NG	READINGS	INVALID		
	3.2423	2.7385	READINGS	INVALID		
	3.2596	2.0308	39.5	- 26.6	. Cu2438	1.90
	3.2942	1.6596	27.4	-111.6	•052393	•90
	3.2962	1.2846	42.2	-117.8	.002393	2.13
	NO READII		READINGS			
	3.6077	2.7827	READINGS		-	
	3.6462	2.0288	32.9	- 72.6	•9u2438	1.32
	356750	1.6596	60.7	-143.1	•Cu2393	5,65
	3.7019	1.2750	55.4	-157.1	•Cu2393	3 .6 8
71.40	NO READI		READINGS			
	NO READII		READINGS			
	2.5600	2.0293	33.8	- 76.8	•CU2542	1.45
	2.5737	1.6761	50.4	- 92.2	.062307	2,93
	2.5912	1.2351	41.4	- 79.2	•0023C7	1.97
	NO READII		READINGS			
	NO READII		READINGS			
	2.9093	2.0254	46.C	- 67.8	•CU1969	2.08
	2.9210	1.6722	33.1	- 69.4	. Du2294	1.25
	2.9463	1.2488	37.0	- 84°C	•0u2294	1.57
	NO READIN		READINGS			
	NO READIN		READINGS			
	3.2976	2.0273	31.2	- 60.3	•0u25Cü	1.22
	3.3210	1.6332	17.8	-102.5	•002593	,41
	3.3561	1.2468	44.9	- 82.6	•Cu2593	2.61
	NO READIN		READINGS			
	NO READIN		READINGS		0 0 0 0 0 0	
	3.6605 3.6820	2.0039	16.0	-166. i)	•002500	,32
		1.6312	29.1	- 93.8	·002593	1.16
	3.7268	1.2663	READINGS	TWANTID		

Table B-XII. Rear-Upper Grid Calculations - Model 36 (Continued)

TIME	X	Y	U	THETA	CENSITY	٥
MICROSEC	INCHES	INCHES	FT/SEC	DEGREES	SLUGS/CUFT	-
112.80	NO READING		READINGS	INVALID		
	NO READI	-	READINGS	INVALID		
	2.5288	2.0404		143-1	•Cu2376	.11
	2.5462		10.C	11.3	•0J2246	.11
	2.5885		9.8	53.1	·0u2246	.11
	NO READI		READINGS			
	NO READI		READINGS	INVALID		
	2.9000		15.C	- 66.8	.Ou2121	. 24
		1.6596	10.0	11.3	.002358	.12
		1.2250	29.0	28.3	.Cu2358	, 99
	NO READI		READINGS	INVALID		
	NO READI		READINGS	INVALID		
	3.2750		23.6	- 94.3	.Gu2479	•69
		1.6423	35.4	93.2	READINGS	INVALID
		1.2404	34.8	73.6	READINGS	INVALID
	NO READI		READINGS	INVALID		
	NO READI	NG	READINGS	INVALID		
	3.6308	2.0250	25.C	- 45.0	.Gu2479	.77
	3,6731	1.6308	35.6	- 6.3	READINGS	CIJAVAL
	NO READI					
154.20	NO READI		READINGS	INVALID		
	NO READI		READINGS	GLIAVEL		
	2.5522		47.9	- 76.G	•Cú2540	2.91
	2.5834	1.6789	19.9	- 29.1	. Cu2290	•45
	2.5971	1.2429	9,9	74.7	.002290	.11
	NO READI		READINGS			
	NO READI		READINGS			
	2.9151		5.8	- 29.9	.Cu2239	.04
	2.9307	1.6741	13.0	- 63.4	3CU239C	•20
	2.9717	1.2624	25.5	- H.7	,Cu2390	,77
	NO READI		READINGS			
	NO READI		READINGS	INVALID		
	3,2956	2.0039	36.C	- 36.3	e0v2572	1.67
	3.3190	1.6683	60.5	- 7.4	.CU2473	4.53
	3.3659	1.28CO	47.1	- 9.5	.302473	2.74
	NO READI		READINGS	INVALID		÷
	NO READI	N G	READINGS	INVALID		
	3.6780	1.9863	60.2	- 45.0	.002572	4.66
	3.7171	1.6273	41.C	- 19.3	.002473	2.08
	3.7405	1.2624	READINGS	INVALID		-

Table B-XII. Rear-Upper Grid Calculations - Model 36 (Continued)

TIME	X	Y	U	THETA		u
MICROSEC	INCHES	INCHES	FT/SEC	DEGREES	SLUGS/CUFT	LB/SQFT
195.60	0 NO READING		READINGS	INVAL ID		
	NO READI			INVALID		
	2.5404	1.9942	31.5	- 86.4	, 002558	1,27
	2.5635	1.6635	35.3	- 90.0	.002282	1.43
	2.5904	1.2231	24.3		•0C2282	.67
	NO READI	NG	READINGS	INVALID		-
	NO READI	NG	READINGS	INVALID		
	2.9000		54.3	- 49.4	.Cu1940	2.86
	2,9096	1.6481	53.6	- 66.3	•Cu2166	3.12
	2+9538	1.2212	57.C	- 92.0	.0J2166	3.52
	NO READI		READINGS			
	NO READI		READINGS			
	3.3038		43.1	- 3C.1	•Cu2664	2,48
	3+3500	1.6346		- 77.3	.002457	4,79
	3.3481	1.2327	71.2		.002457	6.22
	NO READI		READINGS			
	NO READ!	-	READINGS			
		1.9827		180.0	.002664	•01
		1.6173	11.9	~ 99.5	•002457	.18
222 22	3.7481	1.2558	22.4		.002457	•62
237.00	NO READI		READINGS			
	NO READI		READINGS		_	
	2.5541	2.0039	35.0		•QU2321	1,47
	2.5834	1.6429	51.9	•	•Cu2265	3.05
	2.6029	1.2195	20.2	-	•002265	• 46
	NO READI		READINGS			
	NO READI		READINGS			
	2.9502	1.9707	36.8	- 87.0	.002108	1.43
	2•9522 2•9698	1.6254 1.2059	27.4	• -		• 93
	NO READII		11.8		•002489	•17
	NO READI		READINGS			
	3.3327	1.9824	READINGS 6.1		C valet	
	3.3327	1.6078	32•B	- 71.6	-002557	•05
	3.3327	1.2176		-135.0	.002380	1.28
	NO READII		READINGS	- 36.9	.002380	, 45
	NO READII		READINGS			
	3.6761	1.9863	12.4	-128.7	0.,2557	30
	3.7151	1.6156	24.5	-161.6	.0u2557	•20
	3.7346	1.2410	38.2	-120.5	•002380	•71 1•73
			3 V V L	IEU# J	• UUZ 36U	1.13

Table B-XII. Rear-Upper Grid Calculations - Model 36 (Continued)

TIME	x	Y	U	THETA	CENSITY	Q
MICROSEC	INCHES	INCHES	FT/SEC	DEGREES	SLUGS/CUFT	LB/SQFT
278.40	NO READING		READINGS	INVALID		
	NO READING		READINGS			
	2.5077	1.9808	57.8	- 99.8	·002451	4.09
	2.5865	1.6173	32.9	-107.4	.002580	1.40
	2.5962	1.2038	36.5	-126.3	.002580	1.72
	NO READI	NG	READINGS		,	
	NO READI	NG	READINGS	INVALID		
	2.9019	1.9731	59.9	-139.0	•G01957	3.51
	2.9058	1.6212	45.2	-124.4	.002247	2.30
	2.9423	1.2192	37.5	-137.1	.002247	1.58
	NO READI		READINGS	INVALID		
	NO READING		READINGS	INVALID		
	3.3058	1.9769	51.4	-136,5	.062636	3.48
	3.3269	1.6115	42.0	169.2	.002530	2.23
	3.3635	1.2212	25.1	-141.3	, 002530	•80
	NO READI		READINGS			
	NO READING		READINGS	INVALID		
	3.6654	1.9731	41.3	- 92.7	.002636	2.25
	3.6885	1.6096	38.7	-156.0	•002530	1.89
	3.7288	1.2231	33ú8	-144.5	.002530	1.44
319.80	NO READING		READINGS			
	IDABR GN		READINGS	INVALID		
	2.5444	1.9473	23.3	- 41.6	•CJ2588	• 70
	2.5737	1.6117	24.5	-161.6	.332370	•71
	2.5815	1.1902	23.3	-138.4	·0u2370	•64
	NO READI		READINGS			
	NO READI		READINGS			
	2.9054	1.9317	44.7	-107.7	. 002267	2.26
	2.9268	1.5883	27.2	~ 85.9	•0ù2472	• 91
	2.9424	1.1805	44.7	-107.7	.002472	2.47
	NO READI			INVALID		
	NO READI			INVALID	_	
	3.2956	1.9473	29.3	~ 97.6	·C02667	1.14
	3.2917	1.6156	38.2	-120.5	. 002305	1.68
	3.3132	1.2020	45.9	-152.4	·002305	2.43
-	NO READI			INVALID		
	NO READI		READINGS	INVALID	.	
	3.6741	1.9454	34.8	- 90.0	•002667	1.62
	3.6800	1.6000	33.3	- 54.5	•C02305	1.28
	3.7073	1.2215	9.9	- 78.7	•092305	•11

Table B-XII. Rear-Upper Grid Calculations - Model 36 (Continued)

TIME	X	Y	U	THETA	DENSITY	Q
MICROSEC	INCHES	INCHES	FT/SEC	DEGREES	SLUGS/CUFT	LB/SQFT
361.29	NO READING		PEADINGS	INVALID		
				INVALID		
	2,5250	1.9654	43.9	- 63.4	•C02567	2.47
-	2.5635	1.6056	19.4		•C02412	•46
	2.5788	1.1885	19.6	- 36.9	•Cu2412	• 40 • 47
	NO READI			INVALID	1002412	• ~ (
	NO READI		READINGS			
	2.8885	1.9308	34.3	- 66.4	•CU2016	1.19
	2.9077	1.5942	9.8	- 53.1	.002368	-11
	2.9288	1.1769	19.6	36.9	•002368	•46
	NO READI	NG	READINGS		400 £ 300	• 40
•	NO READI	NG	READINGS			
	3.3019	1.9481	29.5	- 53.1	.002503	1.09
	3.3077	1.5788	71.5	- 52.8	•002363	6.04
	3.3231	1.20C0	56.7	- 14.0	•C02363	3.79
	NO READI	NG	READINGS	INVALID	***************************************	3619
	NO READI	NG	READINGS	INVALID		
	3,6654	1,9385	34.3	- 66.4	•062563	1.47
	3.7077	1.5827	44.4	- 45.0	•CG2363	2.33
	7,7308	1.2135	64.6	- 70.5	.002363	4.93
402.60	NO READI		READINGS	INVALID	***************************************	4.75
	NO READI	NG	READINGS		•	
	2.5639	1.9083				
	2.5873	1.5980	16.5	-159.4	·0u2457	. 34
	2.5971	1.1785	20.6	-131.2	.CG2457	•52
	NO READII		READINGS			• > 2
	NO READII	NG	READINGS	INVALID		
	2,9190	1.9005	36.C	- 36.3	.002123	1.38
	2.4327	1.5805	12.4	- 38.7	•Cu2438	.19
	2.9580	1.1922	23.5	9.5	c002438	.68
	NO READII		READINGS	INVALID	(, , , , , , , , , , , , , , , , , , ,	•••
	NO READIN		READINGS	INVALID		
	3.3132	1.9239	44.2	- 66.8	•002596	2.54
	3.3346	1.5590	31.3	- 21.8	·CG2493	1.22
	3.3678	1.1883	25.2	32.5	•002493	.79
	NO READIN		READINGS	INVALID		•
	NO READIN		READINGS	INVALID		
	3.6878	1.9141	9 . 9	11.3	•062556	• 13
	3.7112	1.5688	9.7	143.1	.002493	.12
	3.7288	1.1610	31.5	100.6	.002493	1.24

Table B-XII. Rear-Upper Calculations - Model 36 (Continued)
Model 36, Shot 350

TIME	Χ.	Y	U	THETA	DEWSITY	Q
MICROSEC	INCHES	INCHES	FT/SEC	DEGREES	SLUGS/CUFT	LB/SOFT
444.00	NO READ!	LEIC	SEADINGS	******		
777600	NO READ!	-	READINGS			
	2.5827	1.9558	READINGS 11.9		0.0705	. .
	2.5481	1.6038		170.5	.000735	• 05
	2.5654	1.1731	17.6	-116.6	•Cu2219	.34
	NO READI		60.5	- 35.8	•C62219	4.06
	NO READI		READINGS			
	2.9173	1.9096	READINGS			
	2.9173	1.5865	30.0	- 58.4	•002126	, 96
	2.9519	1.1808	24.8		•C62428	• 75
	NO READI		28.3	- 56.3	•0u2428	•97
	NO READI		READINGS			
	3.3192	1.9077	READINGS			
	3.3365	1.5673	33.3	- 45.0	•362769	1.54
	3.3442	1.2135	2.0	• 0	.002742	•01
	NO READI		15.8	-150.3	•C02742	• 34
	NO READI		READINGS			
	3.6750		READINGS		.	
	3.7000	1.9404	11.8	- 90.0	•002769	•19
	3.7250	1.5885	27.8	- 81.9	.002742	1.06
485.40	NO READI	1.2442	20.9	48.8	•Cu2742	•60
407640	NO READI		READINGS			
	2.5522	1.9102	READINGS	INVALID		
	2.5795	1.5824	12 7			
	2.6459	1.1434	13.7	- 45.C	•CC2460	•23
	NO READI		39.2	20.2	•C0246C	1.89
	NO READI		READINGS			
	2.9346	1.8751	READINGS 28.8		0:000	
	2.9405	2.5571		- 70.3	•C62199	•91
	2.9737	1.1688	37.6	~ 55.5	•0ù2513	1.77
	NO READI		453 READINGS	- 63.4	·0u2513	• 02
	NO READI		READINGS			
	3.3366	1.9005	34.9	- 56.3	02304	•
	3.3366	1.5590	18.4		.002704	1.65
	3.3541	1.1805	36.2	- 71.6	•002511	•42
	NO READI		READINGS	- 74.5	.CG2511	1.64
	NO READI		READINGS			
	3.6878	1.9024	43.8	- 45.0	063307	2 = 0
	3.7151	1.5415	30.6	- 45.0 - 55.3	•002704	2.59
	3.7424	1.1766		- 57.5 - 67.6	.002511	1.18
	··	101100	7 A O C	- 0140	.02511	6.36

Table B-XII. Rear-Upper Calculations - Model 36 (Continued)

Model 36, Shot 350

CALIFER CAN EXPERIENCE CANCELLA PROPERTY PROPERTY OF THE PROPE

TIME	x	Y	U	THETA	CENSITY	Q
MICROSEC	INCHES	INCHES	FT/SEC	DEGREES	SLUGS/CUFT	LB/SQFT
526.80	NO READING		READINGS	INVALID		
	NO READI		READINGS			
	2.5C00	1.9250	18.1	-102.5	.002378	.39
	2.5577	1.5942	10.0	-168.7	.CU2445	.12
	2.6019	1.1865	20.9	138.3	•Cu2445	•53
	NO READI	NG	READINGS	INVALID		
	NO READI	NG	READINGS	INVALID		
	2.9269	1.8827	8.8	-116.6	•Cú2166	, 0გ
	2.9385	1.5558	10.6	158.2	•Gu2485	.14
	2.9538	1.1769	19.3	-156.0	•Cú2485	,46
	NO READI		READINGS			
	NO READI		READINGS			
	3.3385	1.8788	22.9	-121.ŭ	.002760	• 72
	3.3423	1.5500	42.9	-105.9	•CÚ2443	2.25
	3.3538	1.1788	43.6	~ 97.8	•CU2443	2.32
	NO READI		READINGS			
	NO READI		READINGS			
	3.7058	1.9096	8.1	104.0	•00276C	. 09
	3.7173	1.5635	16.8	110.6	•Cu2443	. 34
	3.7519	1.1788	11.5	31.9	•CU2443	,16
568.20	NO READI		READINGS			
	NO READI		READINGS			
	2.5483	1.8927	56,1	9C• C	•Sü2724	4.29
	2.5698	1.5805	17.8	102.5	.002485	• 40
	2.6302	1.1571	19.1	156.0	•0û2485	.45
	NO READI		READINGS			
	NO READI		READINGS			
	2.9307	1.8673	16.C	166.0	.0.2194	.28
	2.9307	1.5610	15.6	150.3	.062454	.30
	2.9561	1.1610	2.7	135.C	·0J2454	.01
	NO READI		READINGS			
	NO READI		READINGS		_	
	3.3249	1.8810	16.0	104.0	.002587	• 33
	3.3249	1.5180	8.7	153.4	.CU2379	.09
	3.3483	1.1376	25.2	122.5	.302379	.76
	NO READI		READINGS	INVALID		
	NO READI		READINGS			
	3,6859	1.9162	19.4	- 36.9	•002587	.48
	3.7093	1.5571	17.8	- 12.5	.002379	•38
	3.7522	1.1824	33.8	76.8	.002379	1.36

Table B-XII. Rear-Upper Calculations - Model 36 (Continued)

Model 36, Shot 350

TIME	x	Y	U	THETA	DENCITY	
MICROSEC	INCHES	INCHES	FT/SEC	DEGREES	DENSITY	G
		Mones	117366	DEGKEE 3	SLUGS/CUFT	LB/SQFT
609.60	NO READING		READINGS	INVALID		
	NO READI	NG	READINGS			
	2.5C00	1.9808	28.6	105.9	.002349	• 96
	2.5538	1.6115	23.0	70.0	·002382	•63
	2.5846	1.1942	28.3	123.7	•0ú2382	• 96
	NO READI	NG	READINGS		• • • • • • • • • • • • • • • • • • • •	• 70
	NO READI	NG	READINGS	INVALID		
	2.9115	1.8865	49.7	-170.9	.002096	2.59
	2.9250	1.5635	26.4	138.0	•002540	.89
	2.9519	1.1788	15.8	60.3	• Cú2540	• 32
	NO READI	NG	READINGS		,	
	NO READI	NG	READINGS			
	3.3346	1.8942	14.2	-123.7	•CG2593	, 2 6
	3.3346	1.5538	39.5	84.3	.CG2483	1.93
	3.3404	1.20GO	56.2	77.9	·002483	3.93
	NO READI		READINGS			
	NC READING		READINGS	INVALID		
	3.7212	1.8981	15.0	- 66.8	·CC2593	•29
	3.7346	1.5596	5.6	- 45.0	.002483	•04
	3.7596	1.2115	25.8	98.7	.002483	•83
651.00	NO READI		READINGS	INVALID		0.05
	NO READI	NG	READINGS	INVALID		
•	2.5405	1.9200	47.3	-145.0	.003134	3.50
	2.5776	1.6020	13.0	-153.4	.002499	•21
	2.6146	1.1805	1.9	89.7	.002499	•00
	NO READI		READINGS			
	NG READI	NG	READINGS	INVALIG		
	2.8820	1.8595	36.2	164.5	·0u2291	1.50
	2.9112	1.5785	23.5	-170.5	·CC2396	•66
	2.9639	1.1746	21.9	-135.0	•0u2396	•57
	NO READI		READINGS			
	NO READI		READINGS	INVALID		
	3.3171	1.8693	47.3	-145.0	.C02779	3.10
	3.3288	1.5571	38.4	-130.9	.0026G0	1.92
	3.3600	1.1922		- 94.1	•002600	• 96
	NO READI		READINGS			- -
	NO READI		READINGS			
•	3.6917	1.8966	42.6	180.0	•032779	2.52
	3.7132	1.5532		-175.6	.062660	3.31
	3.7483	1.2078	53.8	-142.3	.002600	3.76

Table B-XII. Rear-Upper Calculations - Model 36 (Continued)

Model 36, Shot 350

TIME	X	Y	U		DENSITY	Q LB/SGFT
MICROSEC	INCHES	INCHES	FT/SEC	DEGREES	SLUGS/CUFT	EN/SWF1
692 . 4ŭ	NO READI	NG	REACINGS	INVALID		
072410	10 READI		READINGS			
			51.0		.002456	3,13
			48.3			2,88
			46.7		.CU2471	2.69
		NG				
	NO READ!	NG	READINGS	DIJAVEL		
	2,8769	1.8962	13.2	116.6	.CU2071	-18
			29•C		,002480	1.04
	2.9365	1.1635	39.3	~177.1	, 002430	1.42
	NO READI	NG.				
		NG	READINGS			
	3,2962	1.8673	56.3	-150.8		4.22
		1,5250		-131.8	. 0u2590	3,25
		1.1731		-144.2	.Cu259C	2,46
	NO REACT		READINGS			
	NO READI		READINGS			
	-	1.8981	33.4	-116.1		1.48
		1.5558	23.6	-138.4	• SU2590	.72
		1.1768		- 84.8	•CU2590	,61
733.80	NO READ!		READINGS			
	NO READI	NG	REAUINGS	ULLAVALIO		e: = e
	2.491.	1.9337	45.3	16C.C		
	2,5346	1.6234	29.3	-172.4	• Cu2354	1.01
		8861.1	14.7		· Cv2354	.26
	NO READI		READINGS			
	NO READI		READINGS		0. 2263	
			36.5			1.54
		1.5532				.71
		1.1727			•Cu2563	•22
	NO READI		READINGS READINGS			
		NG L 9A20	27.7		.002621	1.01
		1.5200	5.5		•002621 •002445	,04
			11.3			
	3.3249 NO READI	1.1668	READINGS	-121.C INVALID	3CU2445	.16
	NO READI		READINGS			
	3.6761	1.8673	33.9	-121.0	•Cu2621	1,50
	3.6956	1.5376	53.3	- 70.9	•C02021	3.47
	3.7502	1.1863	20.8	- 68.2	•002445	•53
	,	1 1 1 1 1 1			2002117	4 2 2

Table B-XII. Rear-Upper Calculations - Model 36 (Continued)
Model 36, Shot 350

TIME	x	Y	U	THETA	DENSITY	Q
MICROSEC	INCHES	INCHES	FT/SEC	DEGREES	SLUGS/CUFT	LB/SQFT
775.20	NC READI	A)C	05404406			
113070	NO READI		READINGS			
	2.4192		READINGS			
	2.5135	1.9692	36.5	-143.7	·CC2373	1.58
	2.5712	1.6019	70.3	-125.9	·002483	6.14
	NO READI	1.2019	16.8	- 20.6	•CU2483	• 35
	NO READI		READINGS		•	
	2.8577		READINGS			
	2.8788	1.8654 1.5558	18.1	-139.4	.002150	• 35
	2.9250	1.1577	42.C	-142.6	.002383	2.10
	NO READI		34.7	-132.7	•062383	1.44
	NO READI		READINGS			
	3.2904	1.8404	READINGS 39.7		0.50.4.0	
	3.3058	1.5212		- 98.5	÷0ù2640	2.G8
	3.3327	1.1635	30.5 25.6		•002580	1.20
	NO READI			-122.5	•002580	. 85
	NO READI		READINGS READINGS			
	3.6615	1.8692	43.1		0:2440	
	3.7019	1.5058		-120-1	• Cú2640	2.45
	3.7250	1.1596	49.3	- 94.6	•062580	3.13
816.60	NO READI		35.8 Readings	- 80.5	•002580	1.66
01000	NO READI	-	READINGS			
	2.4624	1.9122	43.3		000440	
	2.4937	1.5668	22.1	- 79.7 - 76.7	.002410	2.26
	2.5854	1.1629	53.1	- 74.7 - 79.5	.002636	•64
	NO READI		READINGS		•002636	3.72
	NO READI		READINGS			
	2.8624	1.8595	33.4	-170.0	•062253	1 2/
	2.8644	1.5278	36.8	- 90.0		1.26
	2.9015	1.1473	42.3	-105.9	.0025C1 .002501	1.69
	NO READI		READINGS		•002301	2.23
	NO READI		READINGS			
	3.2624	1.8029	68•4	-118.7	•062644	6.19
	3.2741	1.4985		-129.8	•602401	2.47
	3.3112	1.1454	44.2	-113.2	•0u2401	2.35
	NO READI		READINGS		4005401	4433
	NO READI		READINGS			
	3.6546	1.8302	71.8	- 94.6	•0ú2644	6.82
	3.6917	1.4888		- 96.7	.002461	1.32
	3.7561	1.1512		- 47.7	•002401	•99
				• • • •	1005401	• 77

Table B-XII. Rear-Upper Calculations - Model 36 (Continued)

Model 36, Shot 350

TIME	X	Y	U	THETA		Q
MICROSEC	INCHES	INCHES	FT/SEC	DEGREES	SLUGS/CUFT	L3/SUFT
858.00	.00 NO READING		READINGS	INVALID		
	NO READIN	IG	READINGS			
	2.4269	1.9269	13.9	135.0	•Ju2493	• 24
	2.5192	1.5808	23.6	- 4.8	.00247ú	,69
	2.5808	1.1500	24.3	- 76.0	.Cu247C	, 73
	NO READIN		READINGS			
	NO READIN		READINGS	INVALID		
		1.8596	43.1		*C02230	2.07
	2.8788	1.5192	23.7		,Cu2455	.69
	2.9135	1.1173	39.8	- 20.2	。002455	1.94
	NO READIN		READINGS			
	NO READEN		READINGS			
	3.2577		34.4		·Cu2729	1.61
	3.2769	1.4865	15.7	- 90.0	•Cu2408	• 30
	3.3154	1.1231	14.3	- 15.9	. 002408	. 25
	NO READIN	_	READINGS			
	NO READIN		READINGS			
	3.6558		73.9	-100.7	.002729	7.46
		1.4731	34.7		.002408	1.45
	3.7442	1.1385	66.5		•Cu2468	5.32
8 59.4 û	NO READING		READINGS	INVALID		
	NO READIN	-	READINGS			
	2.4527	1.9220	11.8	80.5		.19
	2.5171	1.5649	34.9	-146.3		1.54
	2.5912	1.1395	44.7	-162.3	·0J2534	2,53
	MO READIN		READINGS			
	NO READIN		READINGS			
		1.8283	32.0	-155.0	. Cu2354	1.21
	2.8741	1.5063	32.2	-147.3	, 0u2676	1,39
	2.9385	1.1337		125.9	•Gu2676	.13
	NO READIN		READINGS			
	NO READIN		READINGS			
	3.2449		24.3	-151.4		.89
	3.2741	1.4829	16.4		•¢02786	. 34
	3.3249	1.1415	16.0	- 76.ū	.002786	. 35
	NO READIN		READINGS			
	NO READIN		READINGS			
	3.6410	1.7580	36.7	-108.4	•063023	2,04
	3.6663	1.4654	35.6	-135.G	•Cú2786	1,76
	3.6937	1.1298	47.8	-121.8	.002786	3.18

Table B-XII. Rear-Upper Calculations - Model 36 (Continued)
Model 36, Shot 350

TIME	x	Y	υ	THETA	CENSITY	Q
MICROSEC	INCHES	INCHES	FT/SEC	DEGREES	SLUGS/CUFT	LE/SQET
940.80	NO READING		READINGS	INVALID		
7-04-00	NO READI			INVALID		
	2.4288	1.9385	9,8	126.9	.002462	•12
	2,4904	1.5615	15.7	180.0	a0u2423	•30
	2c5385	1.1365	24.6	61.4	.002423	•73
	NO READI	NG	READINGS	INVALID		
	NO READI	NG	READINGS	INVALID	•	
	2.7962	1.8462	38.7	156.0	.002158	1.61
	2.8519	1.5019	18.1	102.5	.002459	•40
	2.9077	1.1250	41.0	163.3	.002459	2.07
	NO READI		READINGS	INVALID		
•	NO READI		READINGS			
	3.2365	1.7692	33.4	-136.2	.062797	1.56
	3.2654	1.4750	34.7	-132.7	•002482	1.50
	3.3192	1.1077	45.7	-154.5	.002482	2.59
	NO READI			INVALID		
	NO READI		READINGS		0.0707	
	3.6442	1.7635	29.2	-132.3	.002797	1.19
	3.6731	1.4481	18.6	-108.4	•C62482	•43
982.20	3.7192 NO READI	1.0981	9.8 READINGS	- 53.1 INVALID	.002482	•12
902.20	NO READI		_	GIJAVNI		
	2.4468	1.9298	23 _• 3	175.2	.002621	•71
	2.5015	1.5649	19.4	143.1	.002321	•51
	2.6029	1.1610	31.0	180.0	.002731	1.31
	NO READ!		READINGS		***************************************	1031
	NO READI		READINGS			
	2.7980	1.8439	20.6	-131.2	•0u2432	•51
	2.8702	1.5239	16.3	-148.0	.042771	•46
	2,8995	1.1454	31.5	- 79.4	·0G2771	1.38
	NO READI	NG	READINGS	INVALID		
	NO READI	NG	READINGS	INVALID		
	3.2234	1.7483	53.4	-133.5	.002967	4+23
	3.2507	1.4576	59.2	-101.3	.C02621	4.59
	3.2839	1/1220	8.7	-116.6	.002621	.10
	110 READI			INVALID		
	NO READI			INVALID		
	3.6215	1.7366	63.7	-109.5	•C02967	6.01
	3.6605	1.4478	46.5	- 90.0	•0u2b21	2.83
	3.6995	1.1220	8.2	-135.0	•002621	• 09

Table B-XII. Rear-Upper Calculations - Model 36 (Continued)

Model 36, Shot 350

TIME	X	Y	υ	THE TA	DENSITY	Q
MICROSEC	INCHES	INCHES	FT/SEC	DEGREES	SLUGS/CUFT	LB/SOFT
1923.60	NO READI	NG	READINGS	INVALTO		
.423600	NO READING		READINGS			
	2.4058	1.9404	18.5	-148.0	.Cu2511	•43
	2.4750	1.5731	27.3	-149.7	.Cu2236	, 83
	2.5077	1.1365	67.C	-175.0	·0ú2236	5.02
	NO READI	NG	READINGS	INVALID		-
	NO READI	NG	READINGS	INVALID		
	2.7827	1.8308	37.5	- 96.0	•GU22G4	1.55
	2.8365	1.4923	40.1	-168.7	•Cu2599	2.08
	2.9135	1.0942	22.C	- 79.7	.002599	•63
	NO READ!	NG	READINGS	INYALID		
	NO READI	NG	READINGS	INVALID		
	3.2000	1.7308	9.8	-126.9	•Cū2695	.13
	3.2538	1.4173	31.7	- 68.2	. 002302	1.41
	3.3154	1.1000	35.0	- 51 _e 8	•C028C2	1.71
	NO READI	NG	READINGS	INVALID		
	NO READING		READINGS	INVALID		
	3.6231	1.7038	41.3	- 92.7	.002695	2.30
	3.6731	1.4019	41.8	- 48.8	•Cu28C2	2,44
	3.7135	1.0923	37.5	- 6.0	•Gu28C2	1.97
1065.00	NO READI	NG	READINGS	INVALID		
	MO READI	NG	READINGS	INVALID		
	2.4312	1.9200	31.5	47.5	*CG2719	1,35
	2.4780	1.5512	26.3	- 17.1	,CU25C8	.87
	2.5366	1.1551	44.9	7.4	• CC25C8	2.53
	NO READI		READINGS			
	NO READING		READINGS			
	2.7941	-	31.9	194.3	•Cu23C3	1.17
	2.8312	1.5161	20.2	106.7	•CG2534	. 52
	2.9034	1.1239	19.4	143.1	.€€2534	•47
	NG RFADING		READINGS			
	NO READING		READINGS			
	3.2176	1.7405	12,4	128.7	•CG2869	•22
	3,2624	1.4283	7 . 0	146.3	.002634	• 06
	3.3054	1.0946	14.C	- 56.3	•Cù2534	• 26
	NC READI		READINGS			
	NO READ!		READINGS			
	3.6195	1.6956	31.0	- 90.0	•0ú2869	1.38
•	3.6878	1.4166	11.3	-121.0	•0ú2634	.17
-	3.7366	1.1180	23.3	- 4.8	.002634	• 72

Table B-XII. Rear-Upper Calculations - Model 36 (Continued)

Model 36, Shot 350

TIME	x	Y	U	THETA	CENSITY	Q
MICROSEC	INCHES	INCHES	FT/SEC	DEGREES	SLUGS/CUFT	LB/SOFT
1106.40	NO READI	NG	READINGS	INVAL ED		
1100*40	NO READI		READINGS			
	2.4269	1.9635	72.C	101.0	•0u2563	6.65
	2.5000	1.5054	36.1	60.6	•002363 •002547	1.66
	2.5519	1.1423	3.9	180.0	•602547	•02
	NO READI		READING5		# UUZ J4 I	• 02
	30 READI					
	2.7750	1.8615	53.6	118.4	•CG2164	3.11
	2.8308	1.5115	7.1	- 33.7	•CG2469	• 06
	2.8981	1.1058	4.4	116.6	.902469	•02
	NO READI		READINGS			•02
	NO REACT		READINGS			
	3.1923	1.7404	31.1	-145.7	.002768	1.33
	3,2481	1.4212	24.8		.002724	•84
	3.3231	1.0885	14.2	-	·0u2724	•27
	NO READI		READINGS			
	NO READING					
	3.6231	1.6731	15.0	-156.8	.002768	•31
	3.6673	1.3923	45.5	-172.6	•CU2724	2.83
	3.7365	1.0904	32.5	-155.0	.002724	1.44
1147.80	NO READI	NG	READINGS	INVALID		
	NÙ READI	NG	READINGS	INVALID		
	2.4176	1.9902	31.3	111.8	.002558	1.25
	2.4956	1.5824	57.5	132.3	*C02474	4.10
	2.5327	1.1551	49.€	141.3	.002474	3.04
	NO READI					
	NO READING		READINGS			
	2.7688	1.8537	37.C	137.1	·C02340	1.60
	2.8371	1.5122	27.9	123.7	•0ú2684	1.05
	2.9015	1.1278	48.4	126.9	.Cú2684	3.14
	NO READING		READINGS	INVALID		
	NO READING		READINGS	INVALID		
	3.1922	1.7229	49.0	161.6	.0ú3026	3.63
	3.2390	1.4361	48.1	130.1	.002746	3.17
	3.2937	1.1024	32.9	151.9	.002746	1.49
	NO READING		READINGS	INVALID		
	NO READI		READINGS	INVALID		
	3.6059	1.6858	48.5	156.5	•003026	3,56
	3.6429	1.4107	39.2	147.1	.002746	2.11
	3.7973	1.1044	32.0	155.0	.002745	1.41

Table B-XII. Rear-Upper Calculations - Model 36 (Continued)
Model 36, Shot 350

TIPE	X	Υ	U	THE TA	DENSITY	Q
MICROSEC	INCHES	INCHES	FT/SFC	DEGREES	SLUGS/CUFT	LB/SQFT
MECHOSEC	(1101123	21101160				
1189.20	NO READI	NG	READINGS	CIJAVAL		
110,450	NO READI		READINGS			
	2.4154	1.9923	42.5	- 56.3	.032576	2.32
	2.4615	1.6077	29.5	143.1	.002439	1.06
	2.5135	1.1731	73.6	-170.8	.Cu2439	6,61
	NO READ!		READINGS	INVALID		
	NO READI		READINGS	INVALID		
	2.7481	1.8865	33.8	125.5	•Cu2357	1.35
	2.8154	1.5346	27.6	175.9	.002497	, 95
	2.8692	1.1442	20,5	-163.3	•CU2497	•52
ē	NO READI	NG	REAUINGS			
	NO READI	NG	READINGS			
	3.1462	1.7558		170.5	•Cu29C5	1.87
	3.2173	1.4577	40.9	-144.8	.002624	2.19
	3.2942	1.1038		45.0	• JU2624	•16
	NO READI	NG	READINGS			
	NO READI	NG	READINGS			
	3.5788	1.6923	41.3	- 92.7	.CG29C5	2.48
	3.6346	1.4135	57.3		.002624	4-30
	3.7077	1.1038	32.0		·002624	1.34
1230.60	NO READ!	NG	READINGS			
	NO REACT		READINGS			
	2.4410	1.9551	8.0	-104.3	•Cu2768	• 09
	2.4722	1.6000	11.6	- 96.0	.002198	•15
	2-4605	1.1434	22.7	-160.0	•Cu2198	•56
	NO READ!	NG	READINGS			
	NO READ!		READINGS			
	2.7493			80.5		. 15
	2.8098	1.5141	35.7		•8C2735	1.74
	2.8820	1.1220	9.9	- 78.7	·0J2736	•13
	NO READI		READINGS			
	NO READI		READINGS			
	3.1571	1.7268	38.C	-165.3	.062590	1.87
	3.2059	1.4127	31.5	-169.4	.002851	1.42
	3.3015	1.1102	20.9	56.3	.002861	•63
	NO READ!			INVALID		
	NO READ!		READINGS		00000	
	3.6ŭ39	1.6488	26.3	-126.0	.002590	• 90
	3.6644	1.3580	14.7	~ 66.8	•0u2861	• 31
	3.7307	1.0829	23.3	- 48.4	.002861	.78

Table B-XII. Rear-Upper Calculations - Model 36 (Continued)
Model 36, Shot 350

TIME	X	Y	U	THETA	DENSITY	0
MICROSEC	INCHES	INCHES	FT/SEC	DEGREES	SLUGS/CUFT	L8/SQFT
1272.00	NO READI	NG	READINGS	INVALID		
	NO READING		READINGS			
	2.4135	1.9846	54.2	133.5	.002573	3.78
	2.4615	1.5962	14.3	- 74.1	·CU2452	• 25
	2.4923	1.1654	62.0	11.0	。002492	4.79
	NO READI			INVALID		
	NO READI		READINGS			
	2.7500	1.5981	23.6	85 _• 2	.002388	.67
	2.7808	1.5269	15.3	39.8	•002543	• 30
	2.8712	1.1346	7.1	33.7	•002543	• 06
	NO READI		READINGS			
•	NO READI		READINGS			
	3.1096	1.7462	52.7	153.4	·C02805	3.89
	3.1865	1.4519	39.8	147.1	•002628	2.08
	3.3058	1.1212	30.7	-140.2	.002628	1.24
	NO READING		READINGS			
	NO READS		READINGS	-126.9	0.2005	2.14
	3.5635	1.6712	39 . 3	-	•0ù2805	2.16 .86
	3.6404 3.7231	1.40C0 1.0865	25•5 11•9	-157.4 - 99.5	•002628 •002628	• 19
1212 60	NO READI		READINGS		• 602020	. • 17
1313.40	NO READI		READINGS			
	2.4039	1.9941	26.0	-138.0	.002384	.81
	2,4761	1.5863	24.5	-108.4	.002314 .002415	•72
	2.5210	1.1551	51.2	- 79.1	.002415	3.17
	NO READ!		READINGS		4002112	3411
	NO READ!		READINGS			
	2.7512	1.9044	28.2	-164.1	·CC2495	• 99
	2.8215	1.5239	33.0	- 86.6	•002836	1.54
	2.8878	1.1259	41.1	- 81.9	•CG2836	2.39
	NO READ!		READINGS		•••••	
	NO READ!		READINGS			
	3.1102	1.7522	52.6	- 83.7	•G02642	3.65
	3.1727	1.4341	45.3	-110.0	·0u2599	2.67
	3.2780	1.0907	57.4	-122•ó	·0ú2599	4.29
	NO READ!	• • -	READINGS			
	NO READ!		READINGS			
	3.5805	1.6176	93.4	- 84.1	•C02642	11.53
	3.6410	1.3483	87.2	- 87.5	•CG2599	9.88
	3.7288	1.0712	47.1	-109.2	.002599	2.89

Table B-XII. Rear-Upper Calculations - Model 36 (Continued)

Model 36, Shot 350

to destribution that any of the result of the second control of the second of the seco

TIME	×	Y	U	THETA	DENSITY	Q
MICROSEC	INCHES	INCHES		DEGREES		LB/SQFT
1354.80	NO READ!	NG	READINGS			
	NO READI	NG	READINGS	INVALID		_
	2.3942	1.9673	19.3	-156.û	.002494	,47
	2.4538	1.5731	20.1	- 1209	+002378	. 85
	2.5019	1.1154	62.1	- 34.7	•Cu2378	4.59
	NO READI	NG	READINGS			
	NC READI	NG	READINGS			
	2.7231	1.8964	37.3		.002319	1.61
	2.7827		44.8	-151.2	, Cu2683	2,70
	2.8769	1.0942	23.9	176.5	•C02683	.77
	NO READI	NG	READINGS			
	NO READING		READINGS			
	3.1154	1.6942	55•5	- 98.1	•002855	4.40
	3.1712	1.4096	34.8	- 73.6	.002700	1.64
	3.2750	120731	22.0	- 63.4	.002700	•65
	NO READING		READINGS	INVALID		
	NO READING		READINGS	INVALID		
	3.5731	1.5788	73.1	-126.3		7.62
	3.6442	1.3135	19.3	-114.0	.002708	.51
	3.7317	1.0423	36.5	-143.7	.002700	1.80
1396.20	NO READ!	NG	READINGS	INVALID		
	NO READI	NG	READINGS	INVALID		
	2.3863	1.9863	46.8	114.4	.CJ2470	2.70
	2.4839	1.5610	24.3	118.6	•CJ2965	.87
	2.5717	1.1200	40.7	92.7	,CU2965	2,45
	NO READI	ŘĠ	READINGS	INVALID		
	NO READING		READINGS	INVALID		
	2.7161	1.9161	54.6	157.1	•0u2263	3.35
	2.7824	1.5024	34.2	137.3	.C02732	1,60
	2,8644	1.1298	30.3	153.4	•Cu2732	1.25
	NO REACI	NG	READINGS	INVALID		
	NO READING		READINGS	INVALID		
	3.1024	1.6976	53.1	-169.5	•Cu3233	4,57
	3.1824	1.4010	14.7	-113.2	•Cú2797	.30
	3.2878		11.8	9.5	·002797	.19
	NO READING		READINGS	INVALID		
	NO READI		READINGS			
	3.5376		52.8	-151.6	.003233	4.51
	3.6332	1.3307	35.6	-157.6	.0ú2797	1.77
	3.6995	1.0498	17.4	- 90.0	.C02797	.42
			· •			

APPENDIX B

II. PLOTS OF AIR FLOW VECTORS

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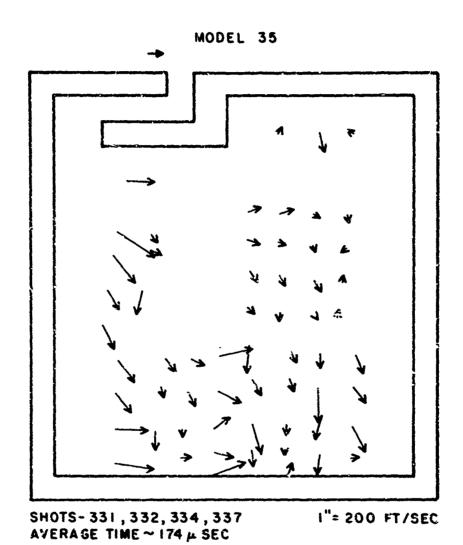
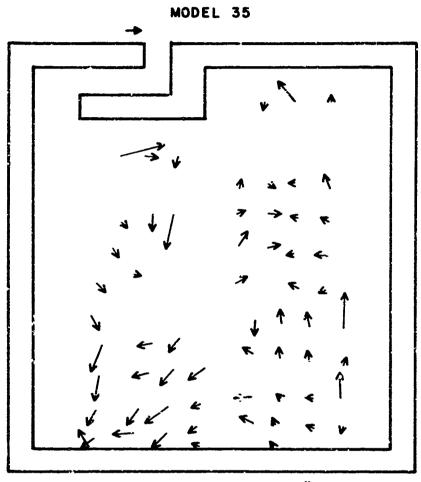


Figure B-1. Flow Vectors from Model 35



SHOTS-331, 332, 334, 337 AVERAGE TIME ~ 506 \(\mu \) SEC

1"= 200 FT/SEC

Figure B-1. Flow Vectors from Model 35 (Continued)

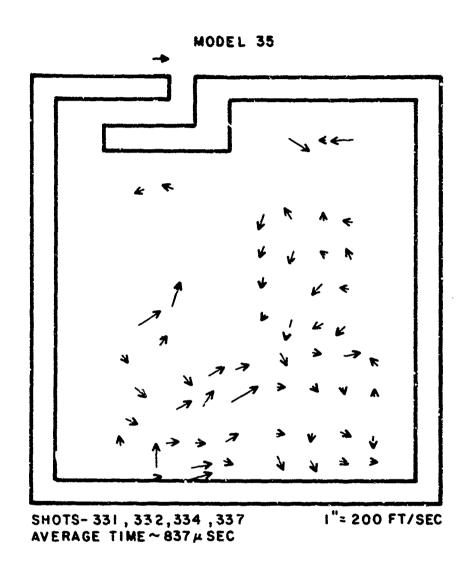
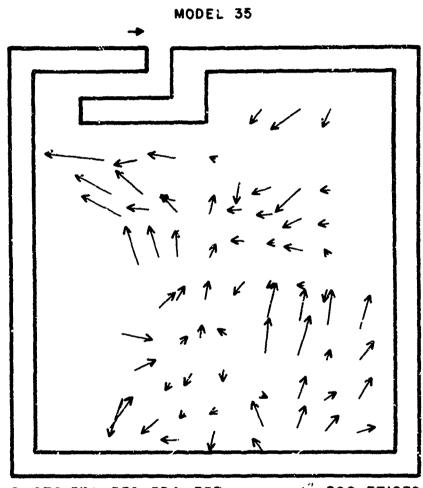


Figure B-1. Flow Vectors from Model 35 (Continued)



SHOTS-331, 332, 334, 337 AVERAGE TIME ~ 1169# SEC

1"a 200 FT/SEC

Figure B-1. Flow Vectors from Model 35 (Continued)

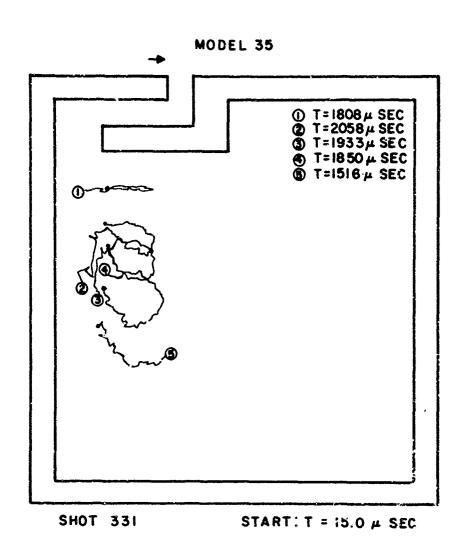
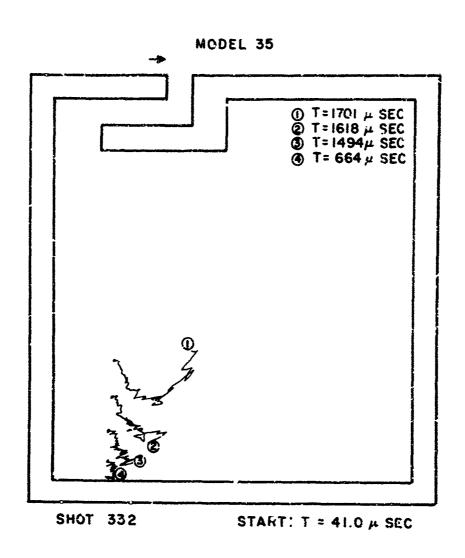


Figure 8-2. Flow Paths - Model 35



THE STATE OF THE S

Figure B-2. Flow Paths - Model 35 (Continued)

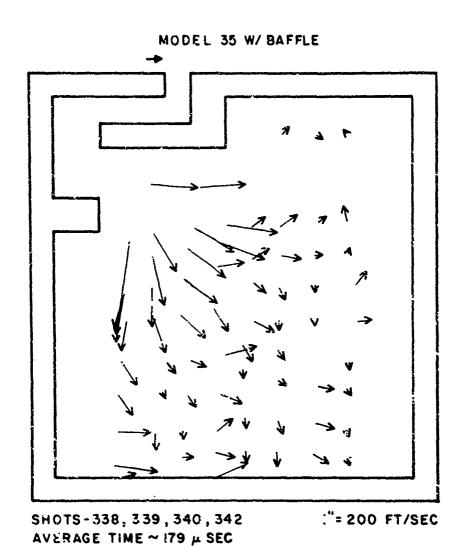


Figure B-3. Flow Vectors from Model 35, with Baffle

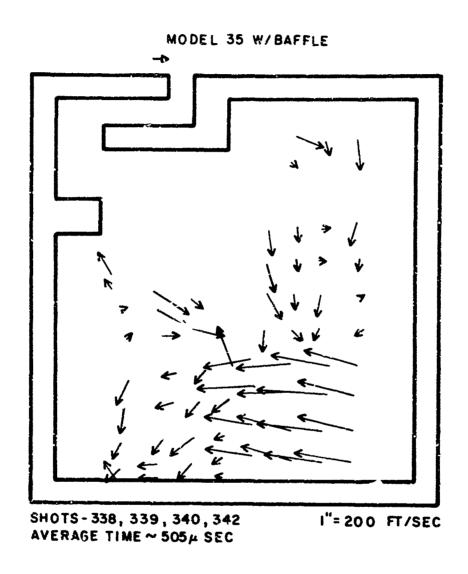


Figure B-3. Flow Vectors from Model 35, with Baffle (Continued)

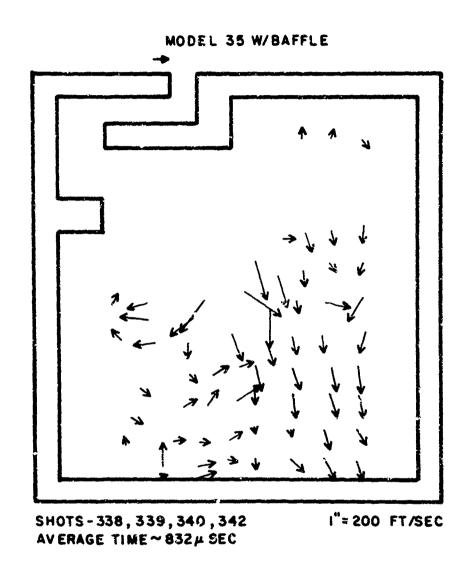


Figure B-3. Flow Vectors from Model 35, with Baffle (Continued)

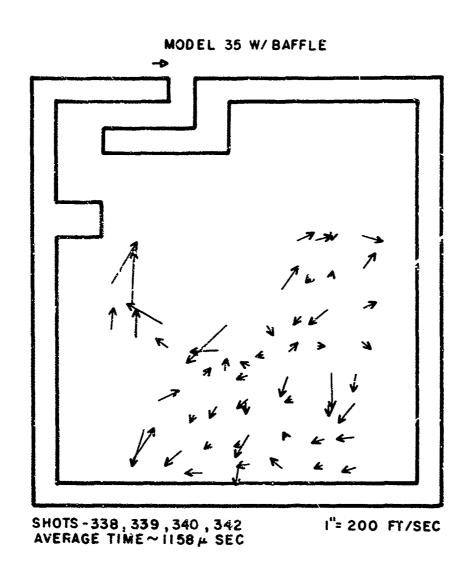


Figure B-3. Flow Vectors from Model 35, with Baffle (Continued)

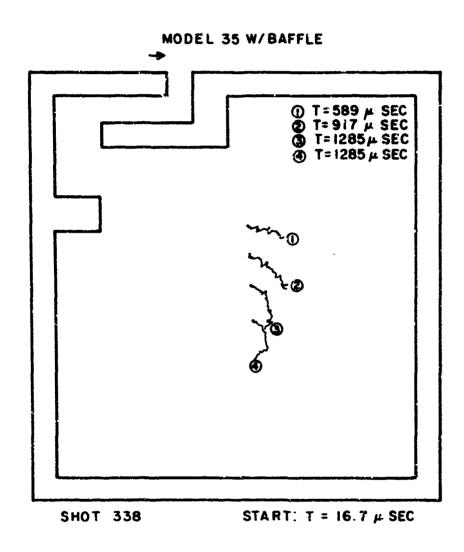


Figure B-4. Flow Paths - Model 35, with Baffle

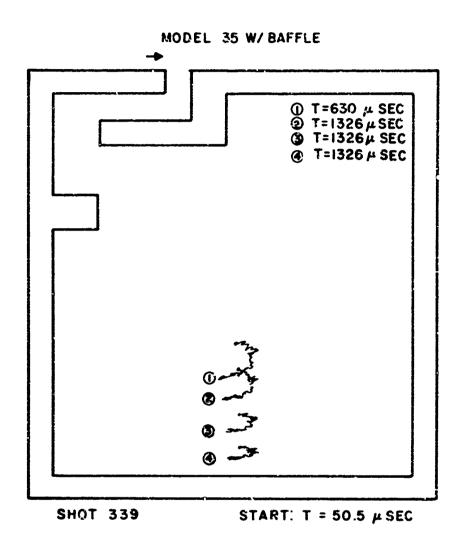


Figure B-4. Flow Paths - Model 35, with Baffle (Continued)

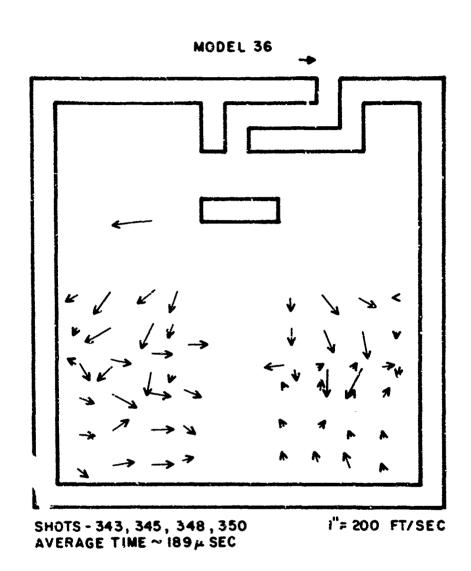


Figure B-5. Flow Vectors from Model 36

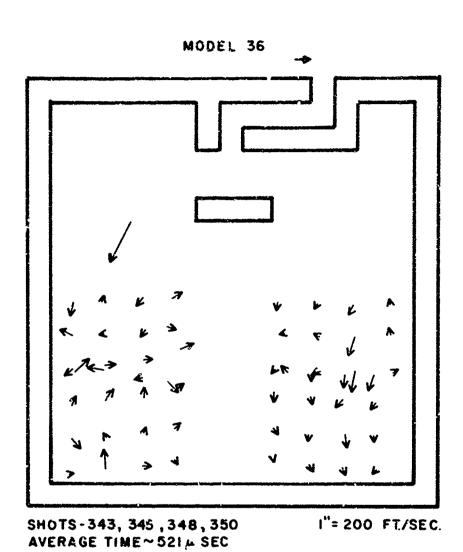


Figure B-5. Flow Vectors from Model 36 (Continued)

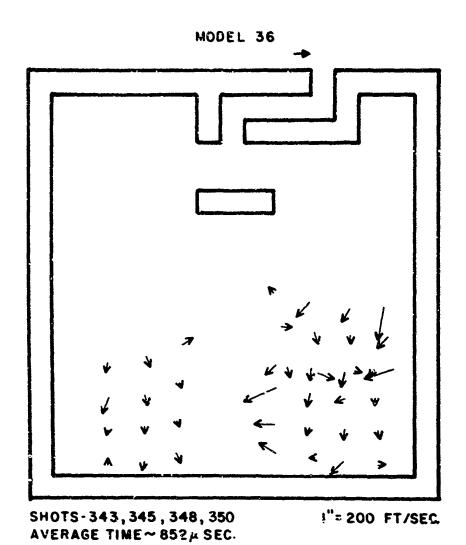
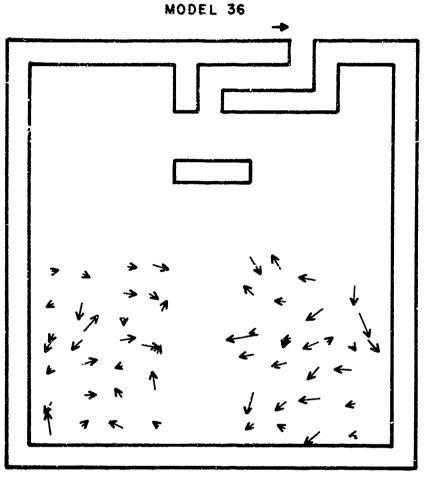


Figure B-5. Flow Vectors from Model 36 (Continued)



SHOTS -343 , 345 ,348 ,350 AVERAGE TIME~ 1183 # SEC.

"= 200 FT/SEC.

Figure B-5. Flow Vectors from Model 36 (Continued)

APPENDIX C

PRESSURE-TIME RECORDS, THREE-DIMENSIONAL MODELS

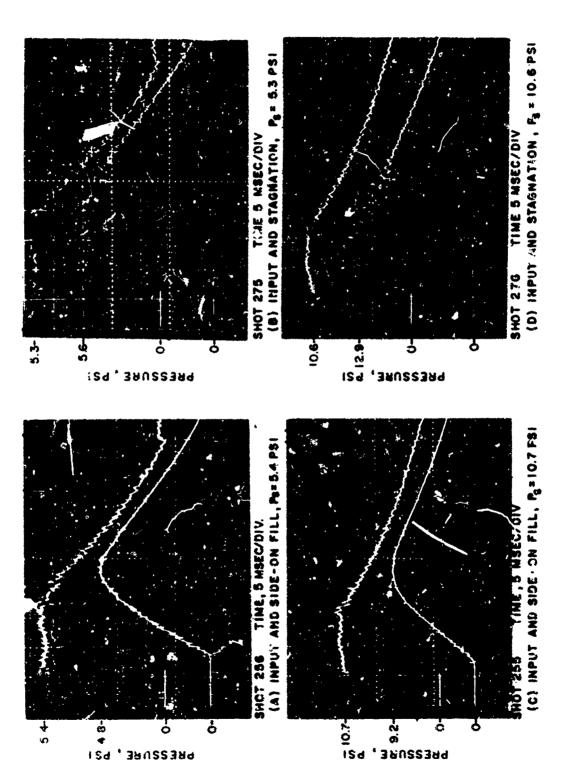


Figure C-1. Records from Position 1, Model 27-A

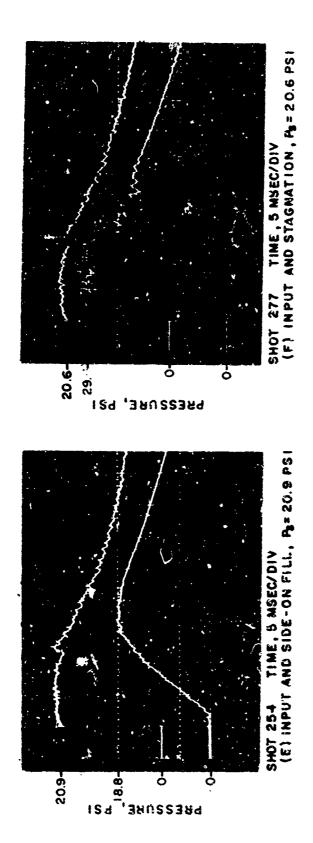


Figure C-1. Records from Position 1, Model 27-A (Continued)

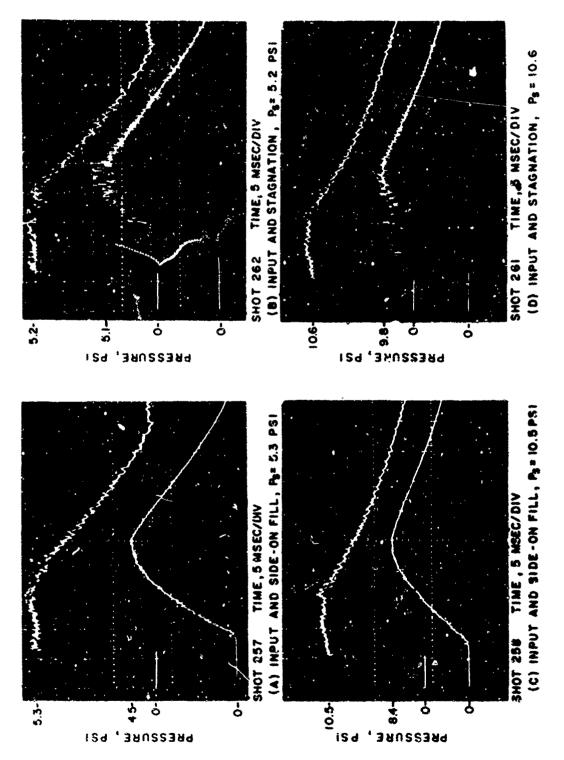


Figure C-2. Records from Position 2, Model 27-A

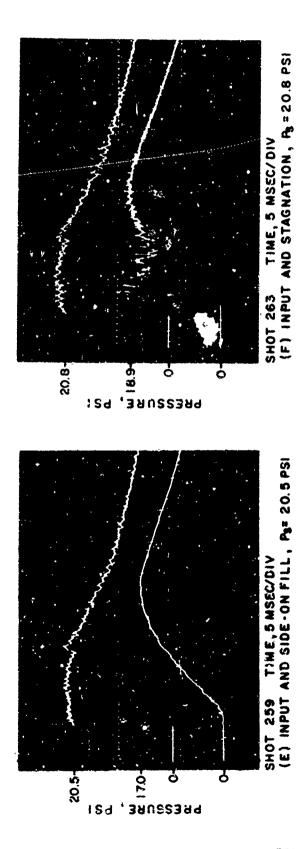


Figure C-2. Records from Position 2, Model 27-A (Continued)

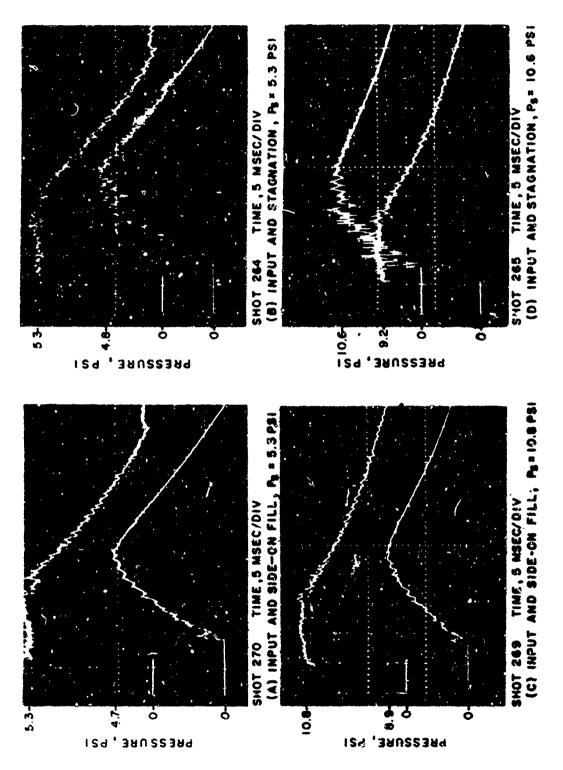


Figure C-3. Records from Position 3, Model 27-A

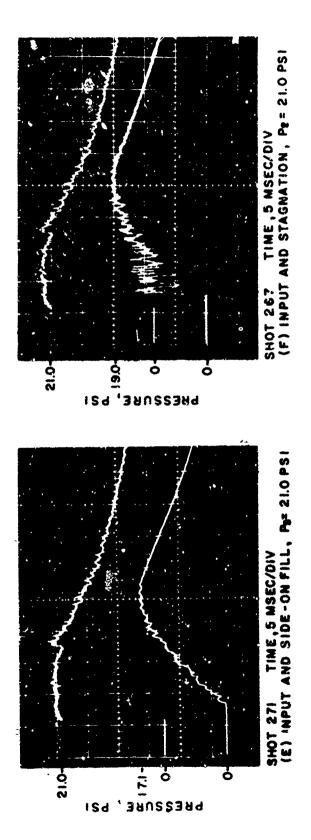


Figure C-3. Records from Position 3, Model 27-A (Continued)

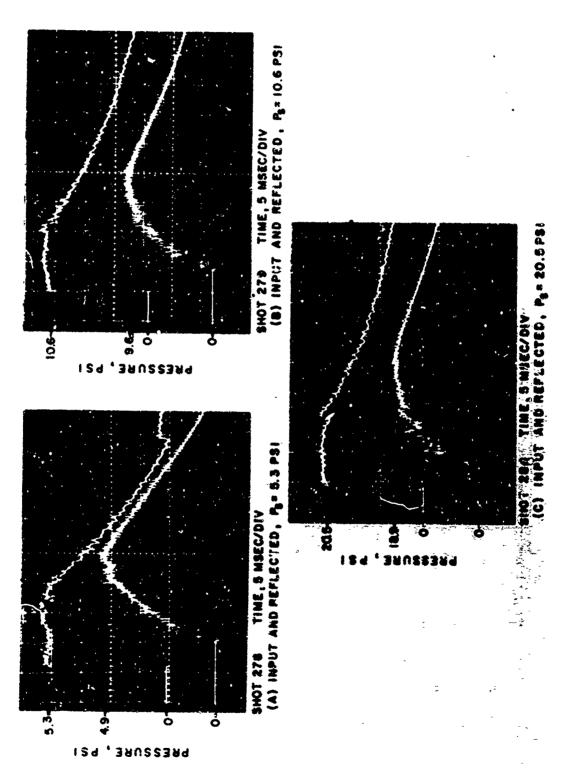


Figure C-4. Records from Position 4, Back Wall of Model 27-A

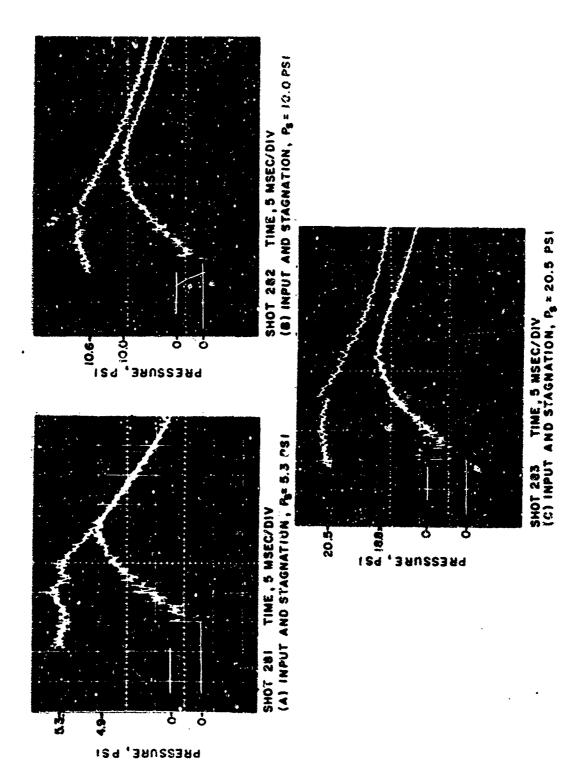


Figure C-5. Records from Position 2A, 20° off-center

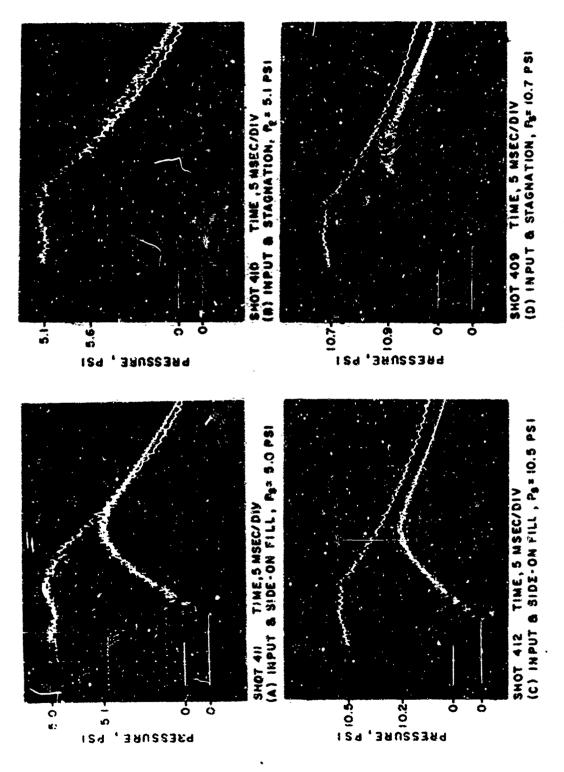
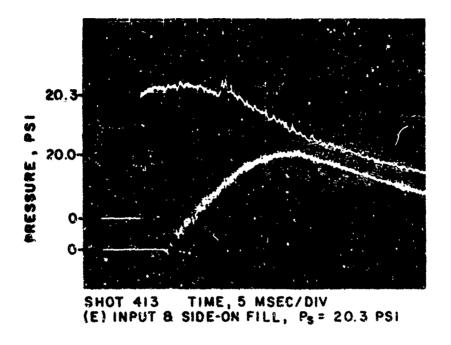


Figure C-6. Records from Position 3, Model 27-A, with Baffle



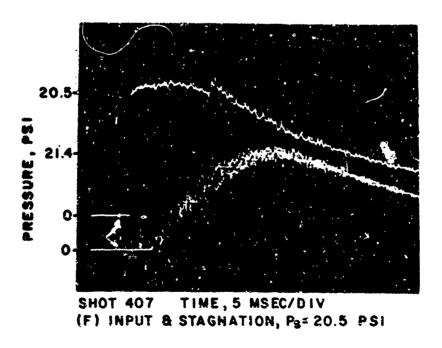


Figure C-6. Records from Position 3, Model 27-A, with Baffle (Continued)

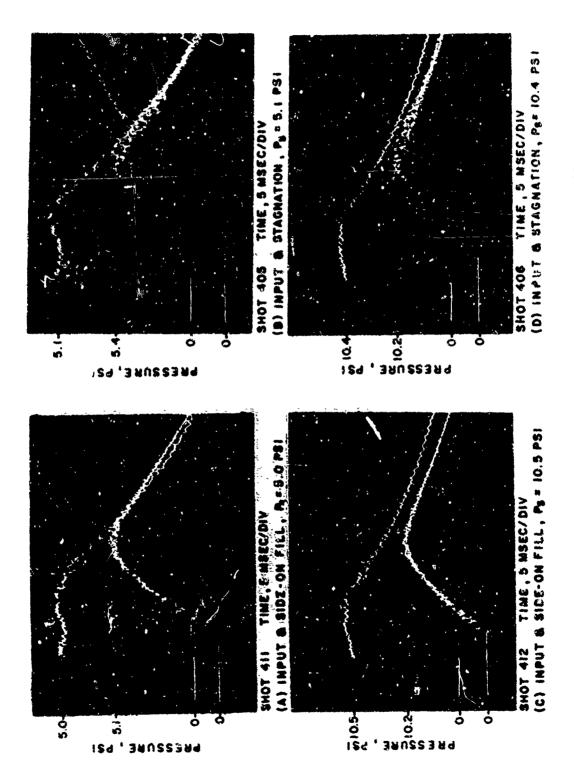
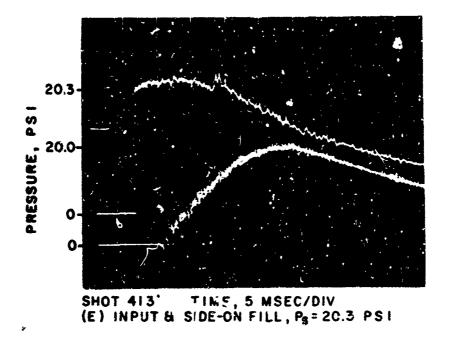


Figure C-7. Records from Position 2, Model 27-A, with Baffle



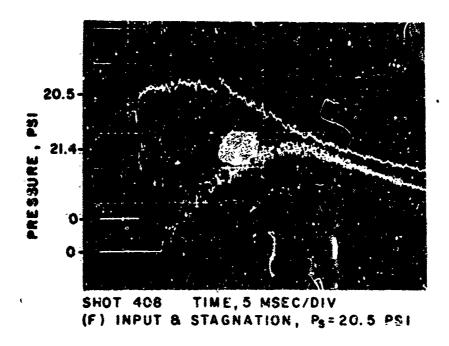


Figure C-7. Records from Position 2, Modai 27-A, with Baffle (Continued)

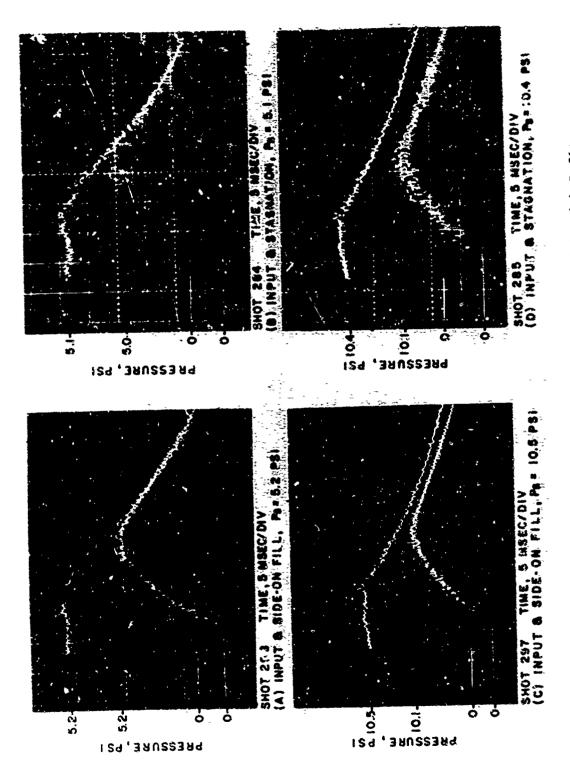
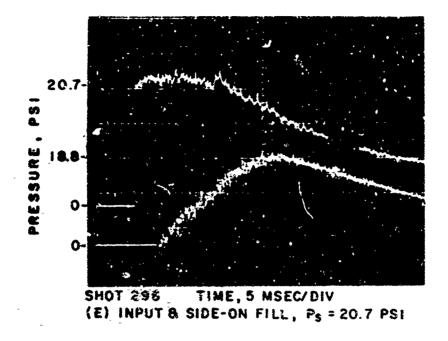


Figure C-8. Records from Position 1-B, Model 27-A, with Baffic



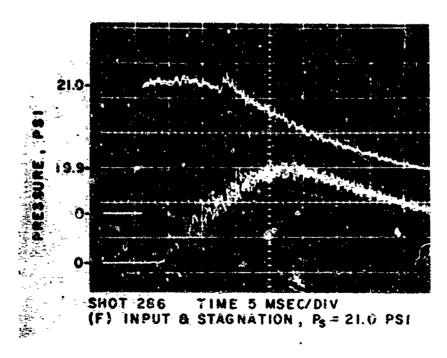


Figure C-8. Records from Position 1-B, Model 27-A, with Baffle (Continued)

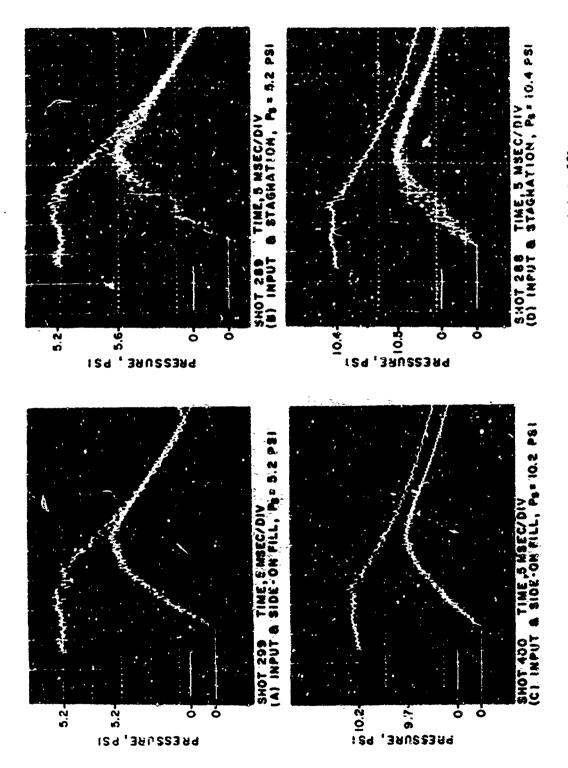
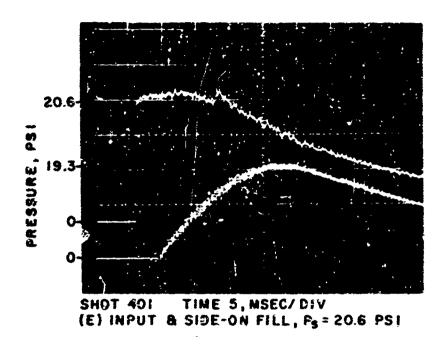


Figure C-9. Records from Position 2-B, Model 27.A, with Bafflo



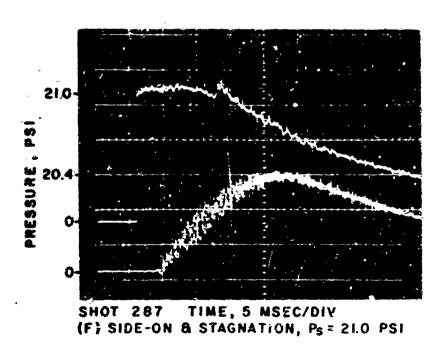


Figure C-9. Records from Position 2-B, Model 27-A, with Baffle (Continued)

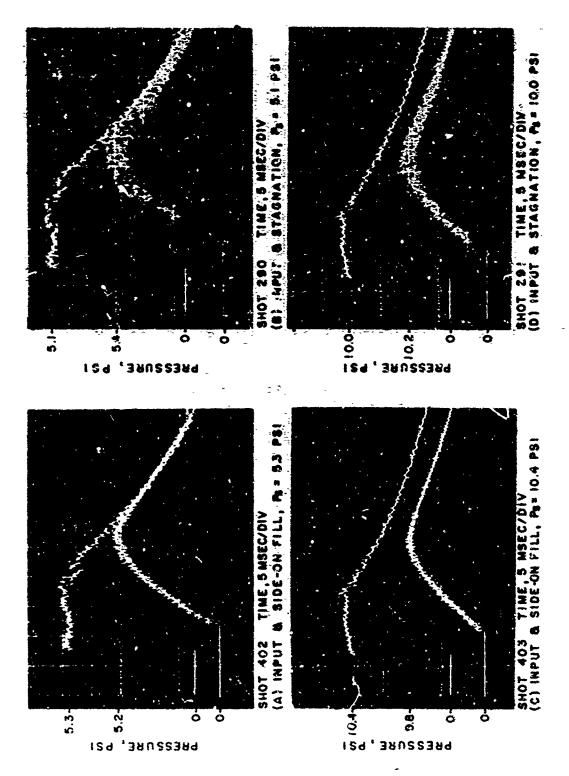
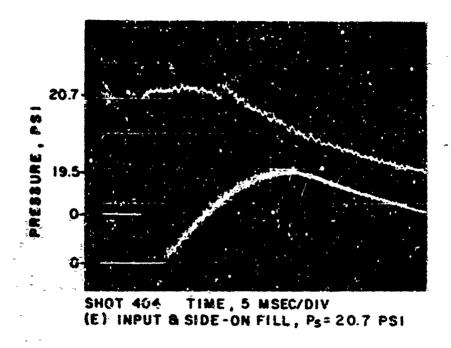


Figure C-10. Records from Position 3-B, Model 27-A, with Baffle



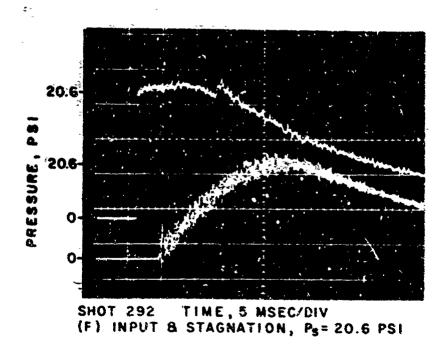


Figure C-10. Records from Position 3-B, Model 27-A, with Baffle (Continued)

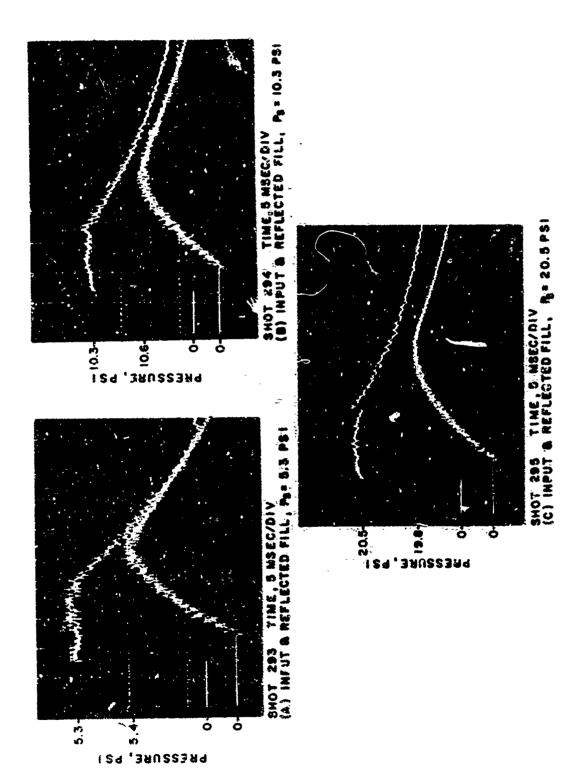


Figure C-11. Records from Position 4-B, Model 27-A, with Baffle

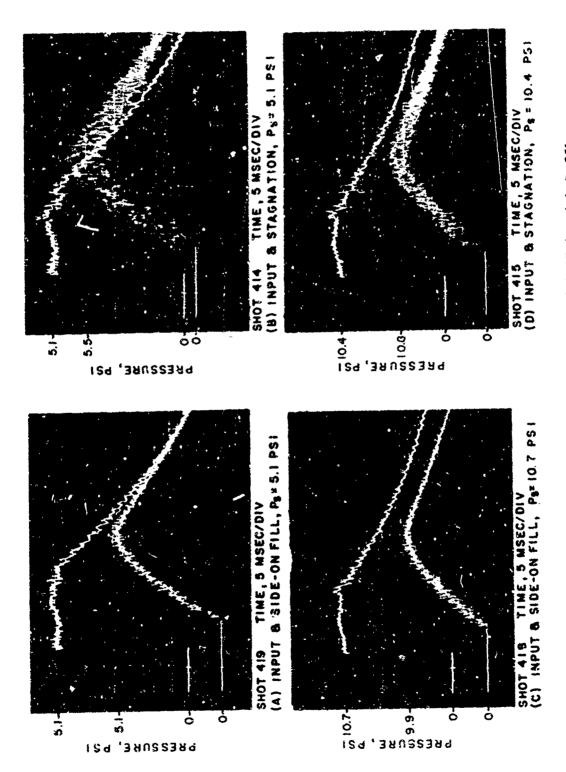
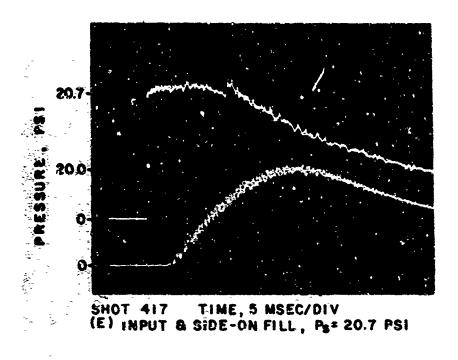


Figure C-12. Records from Position 1-C, Model 27-A, with Baffle



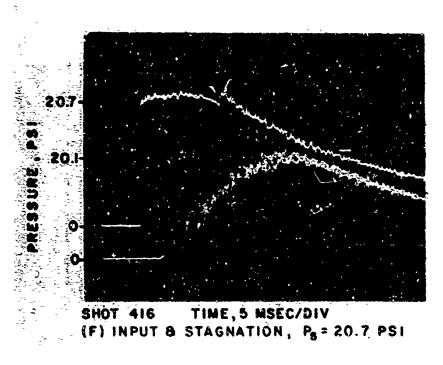


Figure C-12. Records from Position 1-C, Model 27-A, with Baffle (Continued)

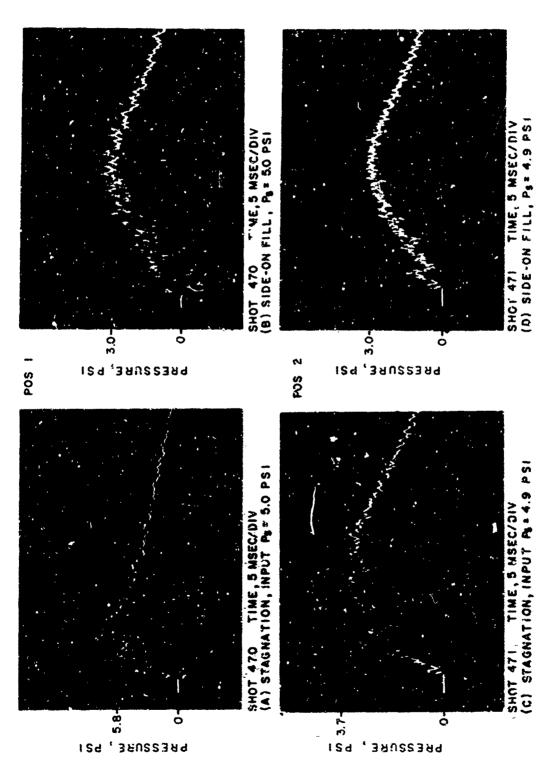


Figure C-13. Records from Position 1, 2 and 3, Model 25-A, P_S = 5 psi

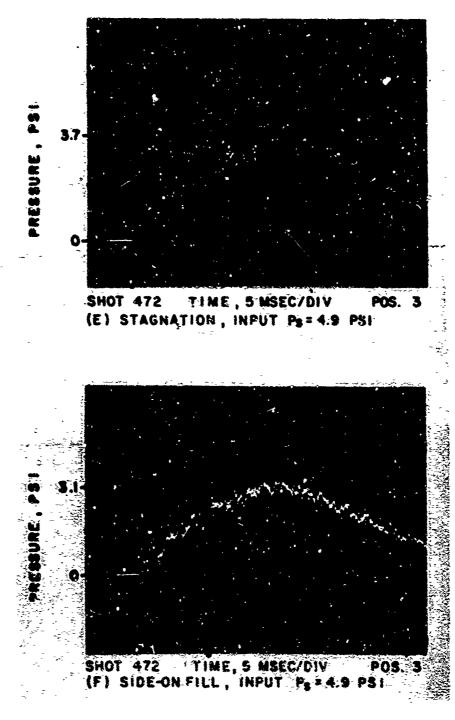
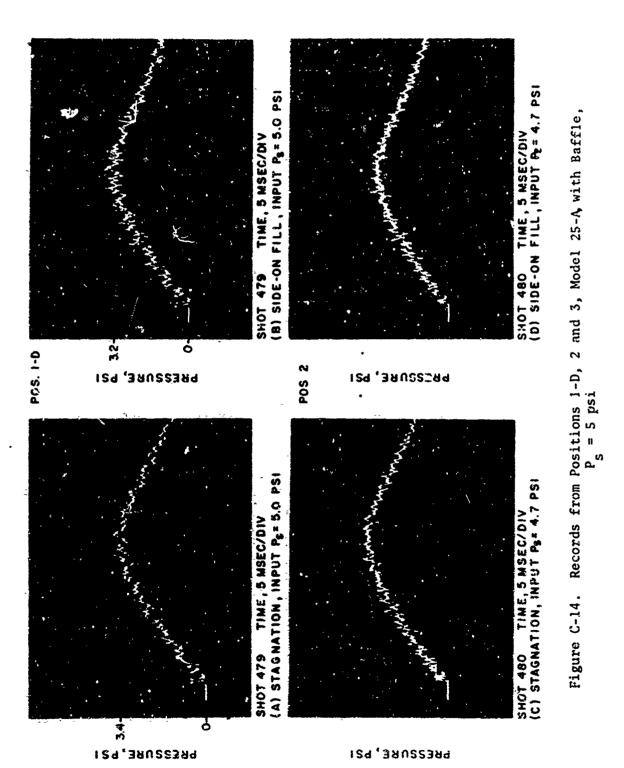
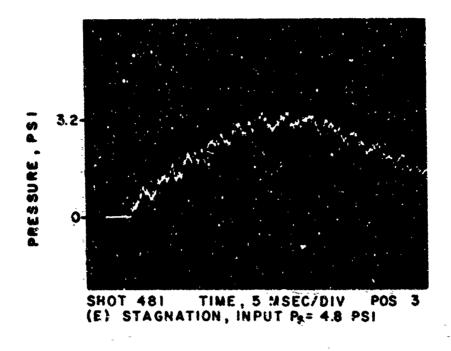


Figure C-13. Records from Position 1, 2 and 3, Model 25-A, P_s = 5 psi (Continued)





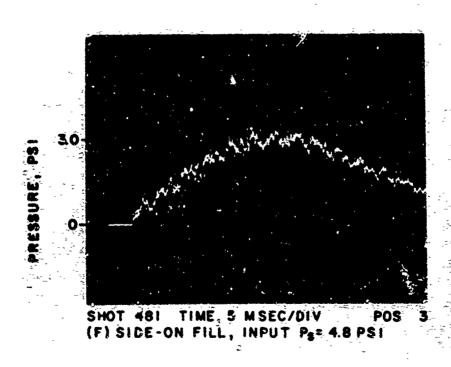


Figure C-14. Records from Positions 1-D, 2 and 3, Model 25-A, with Baffle, P_S = 5 psi (Continued)

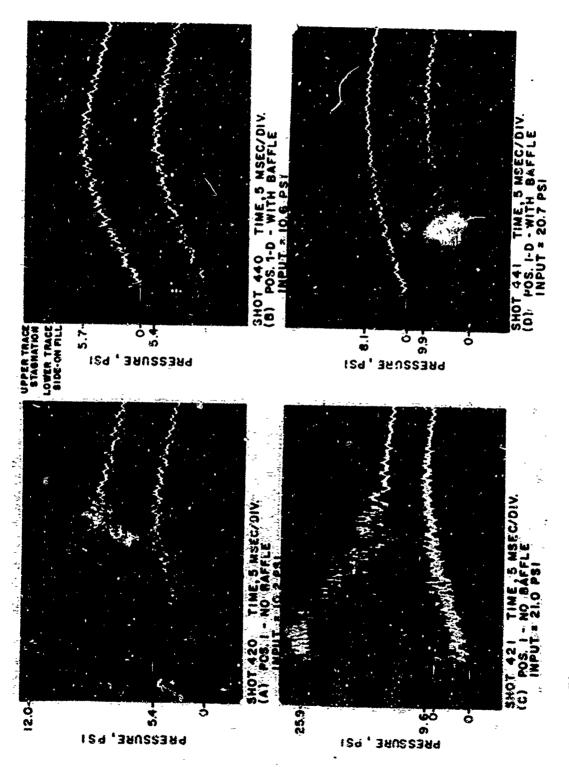


Figure C-15. Records from Positions 1, 2 and 3, Model 25-A, $P_s = 10-21~\mathrm{psi}$

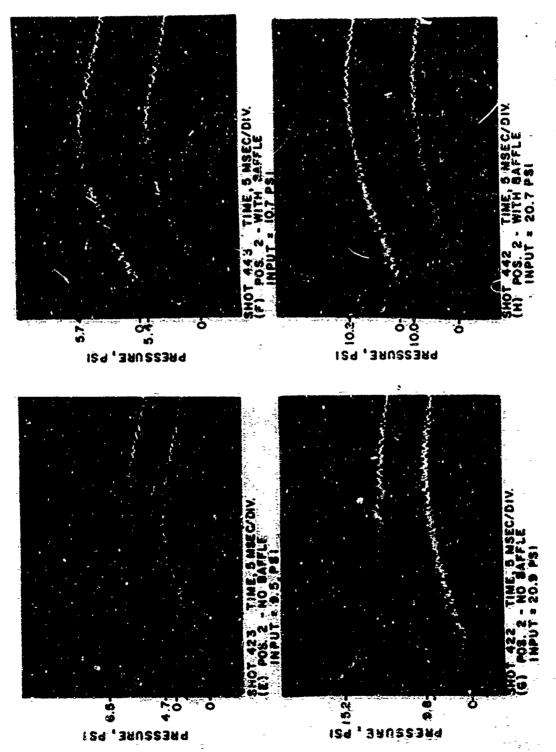


Figure C-15. Records from Positions 1, 2 and 3, Model 25-A, $P_{\rm S}$ = 10-21 psi (Continued)

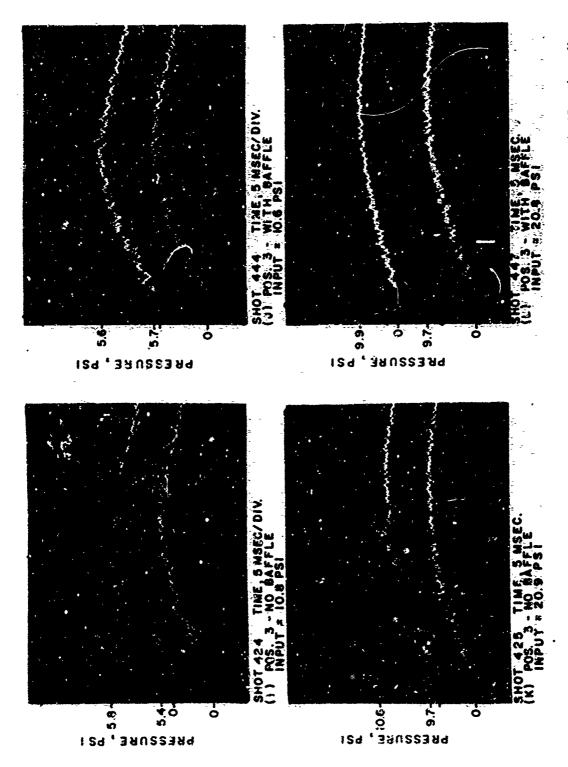


Figure C-15. Records from Positions 1, 2 and 3, Model 25-A, $P_{\rm S}$ = 10-21 psi (Continued)

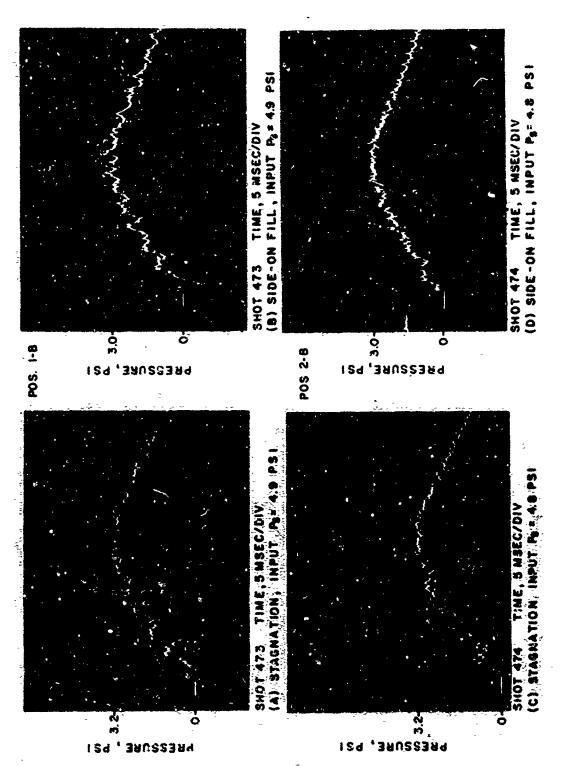
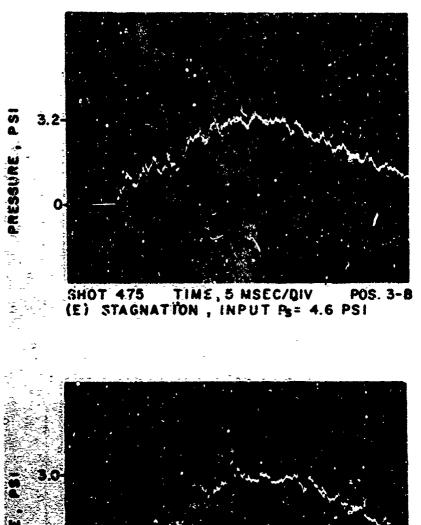


Figure C-16. Records from Positions 1-B, 2-8 and 3-B, Model 25-A, $^{\rm P}_{\rm S}$



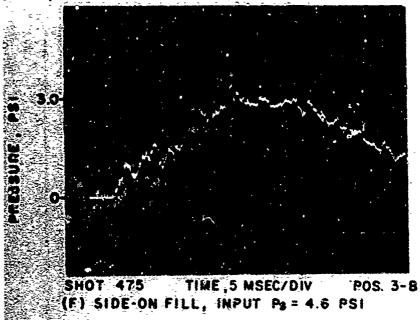


Figure C-16. Records from Positions 1-B, 2-B and 3-B, Model 25-A, P_s - 5 psi (Continued)

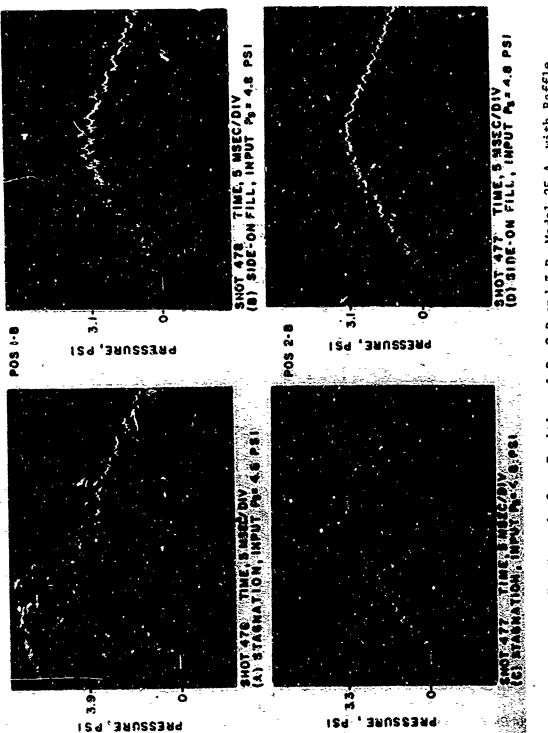
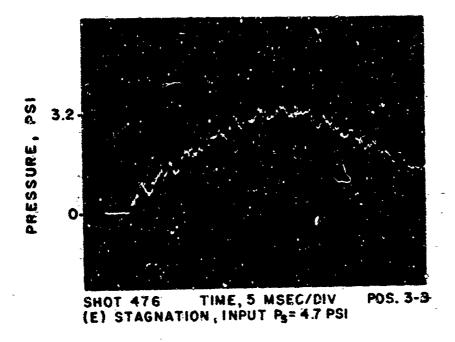


Figure C-17. Records from Positions 1-B, 2-B and 3-B, Model 25-A, with Raffle, $P_{\rm S}$ = 5 psi



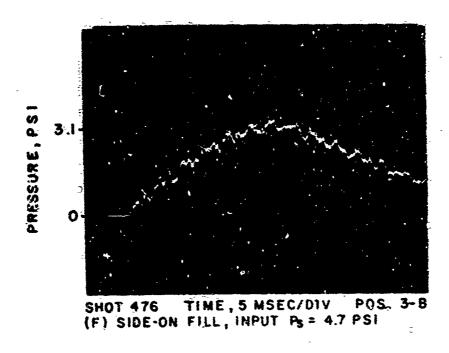
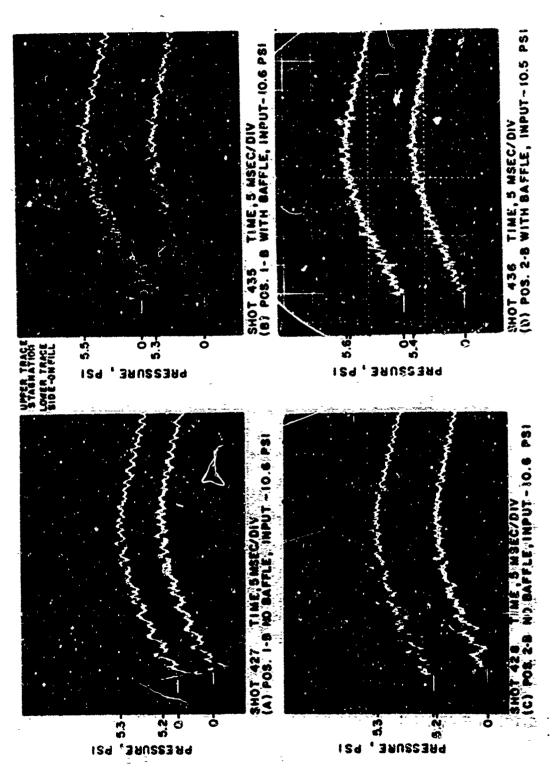
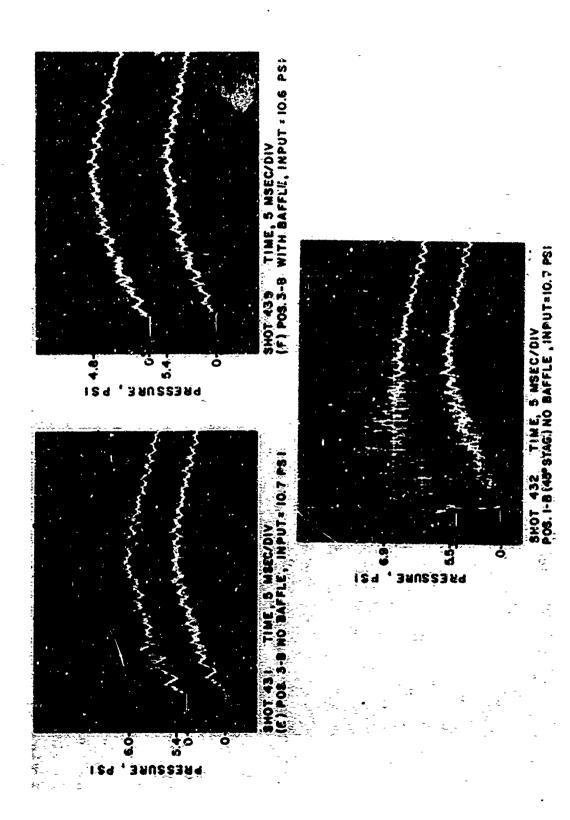


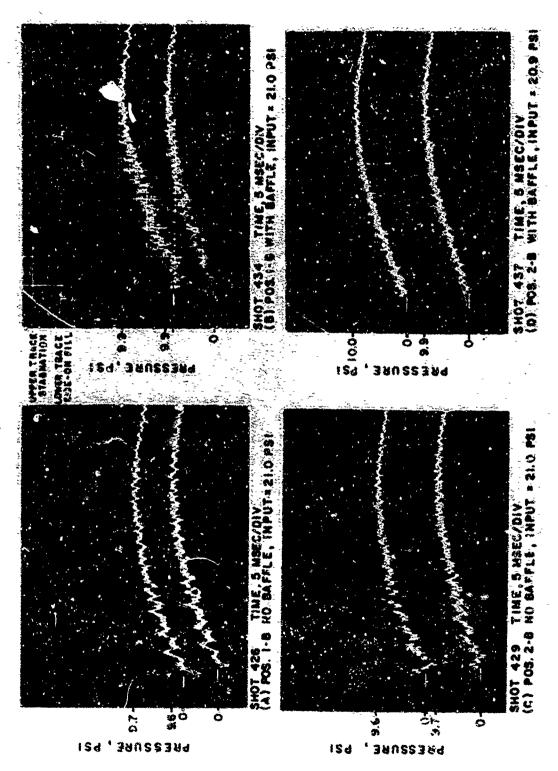
Figure C-17. Records from Positions 1-B, 2-B and 3-B, Model 25-A, with Baffle, $P_s = 5$ psi (Continued)



Records from Positions 1.8, 2-B and 3-B, Model 25-A, Ps Figure C-18.



= 10.6 psi (Continued) Figure C-18. Records from Positions 1-B, 2-B and 3.B, Model 25.A, P



= 21 psi Records from Positions 1-B, 2-B and 3-B, Model 25-A, P Figure C-19.

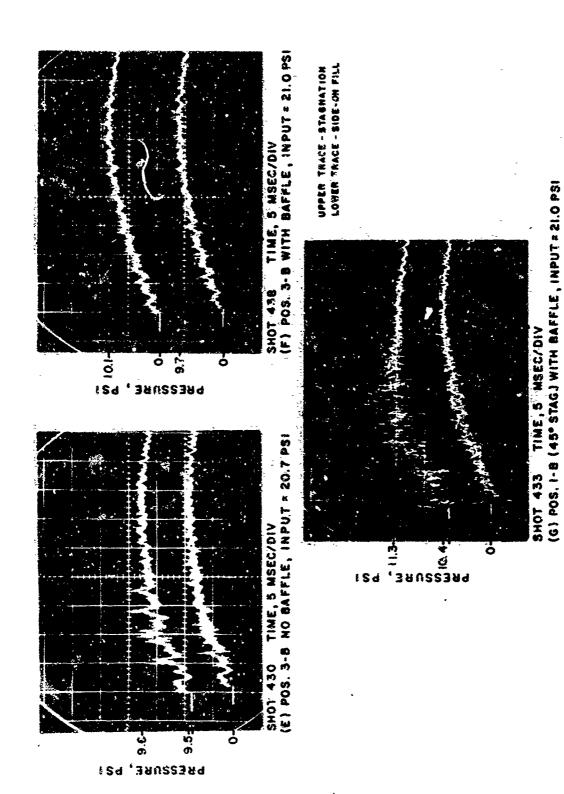


Figure C-19. Records from Positions 1-B, 2-B and 3-B, Model 25-A, $P_s = 21$ psi (Continued)

ACLASSIFIED Security Classification DOCUMENT CONTROL DATA - R & D (Security classification of title, body of abattect and indexing annotation must be entered when the overall report is classified) OBJAINATING ACTIVITY (Corporate author) 24. REPORT SECURITY CLASSIFICATION U. S. Army Aberdeen Research & Development Ctr. UNCLASSIFIED Ballictic Research Laboratories 26. GRUUP Aberdeen Proving Ground, Maryland 21005 . REPORT TITLE FLOW IN MODEL ROOMS CAUSED BY AIR SHOCK WAVES 4. DESCRIPTIVE NOTES (Type of report and Inclusive dates) S. AUTHOR(S) (First name, middle initial, inst name) George A. Coulter S. HEPORT DATE 74. TOTAL NO. OF PAGES 75. NO. OF REFS July 1970 CONTRACT OR GRANT NO. 370 ORIGINATOR'S EXPORT NUMBERIS DAHC-20-67-W-0153 Memorandum Report No. 2044 6. PROJECT NO. N. OTHER REPORT NO(8) (Any other numbers that may be easigned this report) None 10. DISTRIBUTION STATEMENT This document has been approved for public release and sale; its distribution is unlimited. II. SUPPLEMENTARY NOTES 2. SFONSORING MILITARY ACTIVITY Office of Civil Defense Washington, D. C. Experimental results and two-dimensional computer code predictions are shown which illustrate the internal air flow inside model rooms when loaded externally by air

illustrate the internal air flow inside model rooms when loaded externally by air shock waves in a 5-20 psi range. Stagnation and side-on fill pressure records are presented for three-dimensional models which indicate that flow patterns similar to those observed in the two-dimensional study are present inside the three-dimensional

models. Baffles were placed inside the entrances of the models which re-directed the air flow to positions off the entrance centerline and gave more safe floor area.

DD PORS 1473 REPLACES DO FORM 1673. T JAN SA WHICH IS

UNCLASSIFIED
Security Classification

UNCLASSIFIED

	KEY WORDS	LINK A		FINX B		LINKC	
		ROLE	#7	ROLE	WP	ROLE	K 1
Chamber Filling							
Blast Loading							
Transient Flows			1				
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